

November 26, 2008

Mr. Perry Gaughan On-Scene Coordinator U.S. Environmental Protection Agency, Region 4 61 Forsyth Street SW, 11th Floor Atlanta, Georgia 30303

Subject: Partin Oil Spill Site – Oliver Springs, Tennessee

Technical Direction Document Number (No.) TTEMI-05-002-0007

Contract No. EP-W-05-054 (START III Region 4)

**Full Data Validation Report** 

TestAmerica Analytical Testing Corporation Reports No. NRC2505 and NRD0081

Analytical Parameters: Volatile organic compounds, semivolatile organic

compounds, organochlorine pesticides, polychlorinated biphenyls, target analyte list

metals, gasoline range organics, and extractable petroleum hydrocarbons

Laboratory Report No.	Samples	Field Duplicate Pairs	Field Blanks
NRC2505	SF-01, SF-02, SF-02 Dup, VG-01, and VG-02	SF-02 and SF-02 Dup	None
NRD0081	SF-03, SF-04, and TS-01	None	TS-01

#### Dear Mr. Gaughan:

The Tetra Tech EM Inc. Superfund Technical Assessment and Response Team (START) conducted data validation of the analytical results for six soil samples, one soil field duplicate sample, and one soil trip blank that were collected at the Partin Oil Spill Site in Oliver Springs, Tennessee, on March 28 and April 1, 2008. The samples were analyzed under laboratory Reports No. NRC2505 and NRD0081 by TestAmerica Analytical Testing Corporation of Nashville, Tennessee. The samples were analyzed for volatile organic compounds (VOC) by SW-846 Method 8260B, semivolatile organic compounds (SVOC) by SW-846 Method 8270C, organochlorine pesticides by SW-846 Method 8081A, polychlorinated biphenyl compounds (PCB) by SW-846 Method 8082, target analyte list (TAL) metals by SW-846 Methods 6010B and 7471A, gasoline range organics (GRO) by the Tennessee method, and extractable petroleum hydrocarbons (EPH) by the Tennessee method. Only sample SF-03 was analyzed for organochlorine pesticides and PCBs.

Analytical data were evaluated in general accordance with applicable data validation guidance documents, including the following: the U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review (July 2007) and the EPA CLP NFG for Inorganic Data Review (October 2004). The analytical methods used by the fixed laboratory during this project provide guidance on procedures and method acceptance criteria that, in some areas, differ from the NFGs. Where the methods and the NFGs differ, the data validators followed the acceptance criteria in the methods. In addition, if laboratory-derived acceptance criteria were presented in the fixed laboratory data package, then these criteria were used to evaluate the data unless the criteria were considered inadequate. Data were evaluated based on the following criteria:

- Data Completeness
- Sample Preservation, Sample Receipt, and Holding Times

- Gas Chromatography and Mass Spectrometry (GC/MS) Instrument Performance Checks
- Gas Chromatograph with Electron Capture Detector (GC/ECD) Instrument Performance Check
- DDT/Endrin Breakdown (pesticides only)
- Initial Calibration
- Continuing Calibration
- Calibration Verification
- Initial and Continuing Calibration Verification
- Field and Laboratory Blanks
- Inductively Coupled Plasma Interference Check Samples (ICP ICS)
- System Monitoring Compounds (Surrogates)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Laboratory Duplicate Sample Analysis
- Spike Sample Analysis
- ICP Serial Dilution
- Field Duplicates
- Laboratory Control Samples (LCS) and Laboratory Control Sample Duplicates (LCSD)
- Dilution by Addition of Solvent
- Dilution by Re-extraction and Reanalysis
- Second Column Confirmation
- Internal Standards
- Target Analyte Identification
- Analyte Quantitation and Reported Detection Limits
- System Stability and Performance

The following data validation approach was used; it should meet the needs of most data uses and requirements for limits on uncertainty for decision-making using the data. This approach consisted of a review of all of the data, including the raw data. This data validation effort constituted a full validation of the data and involved a 100 percent check against applicable acceptance criteria of all quality control (QC) parameter data, including the parameters listed above.

In addition, all data that pertain to analyte identification, such as chromatograms and mass spectra, were checked completely (100 percent) to evaluate the accuracy of analyte identification. This effort involved an in-depth quantitative check of a fraction of the data; this check involved recalculation of QC results (such as percent recoveries [%R] and relative percent difference [RPD] values) and target analyte results from the raw data. Results were recalculated at a frequency of 10 percent for the data that had been transcribed and generated by hand. Results for data calculated by software were recalculated at varying frequencies and to the extent necessary to confirm the adequacy of the software. If errors or discrepancies were encountered when any data were recalculated and checked, the extent of the data check was expanded, as necessary, to identify the full extent of the problem.

Enclosure 1 presents copies of the sample results sheets from the laboratory data packages, with hand-entered qualifications from the data validation effort. Enclosure 2 presents the same data validation-qualified analytical results in table format. The following sections discuss the data packages and provide an overall assessment of the data. This discussion concentrates on the irregularities associated with the various parameters.



#### **DATA COMPLETENESS**

The data packages for laboratory Reports No. NRC2505 and NRD0081 were complete, with the following exceptions. For data package NRC2505, metals beryllium and thallium were missing from the initial and continuing calibration blank summaries (ICB/CCB). These forms were resubmitted by the laboratory with the missing information included.

#### SAMPLE PRESERVATION, SAMPLE RECEIPT, AND HOLDING TIMES

The holding times were met for all sample analyses. The temperatures of the samples were within the QC limit of  $4 \pm 2$  degrees Celsius when they arrived at the laboratory.

#### **GC/MS INSTRUMENT PERFORMANCE CHECKS**

All GC/MS instrument performance checks for the analysis of VOCs and SVOCs met the acceptance criteria.

#### **GC/ECD INSTRUMENT PERFORMANCE CHECK**

All GC/ECD instrument performance checks for the analysis of organochlorine pesticides and PCBs met the acceptance criteria.

#### **DDT/ENDRIN BREAKDOWN**

The breakdown percentages for both DDT and endrin for the analysis of organochlorine pesticides met the acceptance criteria.

#### **INITIAL CALIBRATION**

The initial calibrations were analyzed at the proper frequencies and concentrations and met all requirements, with the following exceptions. In the VOC initial calibration performed on April 2, 2008, the relative response factor (RRF) for acetone were below the advisory QC limit of 0.010. Therefore, all nondetect sample results for acetone in samples SF-01, SF-02, SF-02 Dup, VG-01, and VG-02 were rejected as unusable (flagged "R").

Percent relative standard deviations for several compounds in the VOC and SVOC analyses were high and exceeded the QC limit of 20 percent (40 percent for poor responding compounds). However, all of these met the alternative QC limit of a correlation coefficient exceeding 0.995, so no further qualifications are warranted.

#### **CONTINUING CALIBRATION**

The continuing calibrations were analyzed at the proper frequencies and concentrations and met all requirements, with the following exceptions. In all VOC continuing calibrations, the RRFs for acetone were below the advisory QC limit of 0.010. Therefore, all nondetect sample results for acetone were rejected as unusable (flagged "R").

In the VOC analysis, the continuing calibration performed on March 29, 2008 yielded percent difference values for bromochloromethane and bromomethane that exceeded the QC limit of 25 percent. Therefore, the nondetect results for bromochloromethane and bromomethane were qualified as estimated (flagged "UJ") for samples VG-01 and VG-02.



Mr. P. Gaughan November 26, 2008

In the VOC analysis, the continuing calibration performed on March 31, 2008 yielded a percent difference value for 1,2,3-trichloropropane that exceeded the QC limit of 25 percent. Therefore, the nondetect results for 1,2,3-trichloropropane were qualified as estimated (flagged "UJ") for samples SF-01, SF-02, and SF-02 Dup.

In the SVOC analysis, the continuing calibration performed on March 30, 2008, yielded percent difference values for 1-methylnaphthalene and N-nitrosodi-n-propylamine that exceeded the QC limit of 25 percent. Therefore, the nondetect results for 1-methylnaphthalene and N-nitrosodi-n-propylamine were qualified as estimated (flagged "UJ" for non-detects and "J" for positive results) for samples SF-01, SF-02, SF-02 Dup, VG-01, and VG-02.

In the pesticide continuing calibrations, a few peaks had excessive percent differences on one column but not on the other. No qualifications are required for these irregularities. However, aldrin displayed percent differences above the QC limit of 20 percent for both columns in the closing continuing calibration. Therefore, the aldrin result for sample SF-03 was qualified as estimated (flagged "UJ").

In the first EPH continuing calibration performed on April 2, 2008, at 00:56, the percent difference value greatly exceeded the QC limit of 25 percent. This may have been carryover from the analysis of undiluted extracts of samples, which were not reported. The second continuing calibration performed on that day, at 02:16, and all subsequent continuing calibrations, had acceptable percent difference values. Samples VG-01 and VG-02 were analyzed between the first and second continuing calibrations, so the EPH results for samples VG-01 and VG-02 were qualified as estimated (flagged "J"). Since the other samples were analyzed after the second continuing calibration and were bracketed by acceptable continuing calibrations, no qualifications are warranted.

#### **CALIBRATION VERIFICATION**

The second source calibration verifications for the organic analyses and the Contract-Required Quantitation Limit (CRQL) Check Standard (CRI) for the inorganic analyses were analyzed at the proper frequencies and concentrations and met all requirements, with the following exceptions. In the VOC calibration verification performed on March 29, 2008, the percent recoveries for bromomethane and bromochloromethane were above the QC limit of 75-125 percent. Therefore, the nondetect results for bromomethane and bromochloromethane were qualified as estimated (flagged "UJ") for samples SF-01, SF-02, SF-02 Dup, VG-01, and VG-02.

In both SVOC calibration verifications, the percent recovery values for 3/4-methylphenol were above the QC limit of 75-125 percent. Therefore, the nondetect results for 3/4-methylphenol were qualified as estimated (flagged "UJ") for all samples discussed in this report.

In the metals CRI for Report No. NRD0081, the opening CRI percent recovery for selenium was 156 percent, which was above the upper QC limit of 130 percent. Because the associated results may be biased high, the selenium results for samples SF-03 and SF-04 were qualified as estimated (flagged "J+").

#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

The initial and continuing calibration verifications for the inorganic analyses were analyzed at the proper frequencies and concentrations and met all requirements.

#### FIELD AND LABORATORY BLANKS

Method blanks were free of target analytes, with the following exceptions. In the VOC analysis performed on March 29, 2008, a low-level concentration of the common laboratory contaminant



Mr. P. Gaughan November 26, 2008

methylene chloride was detected in the method blank. No qualifications were required for methylene chloride in these samples, because it was detected at concentrations more than 10 times the blank concentration.

In the VOC analysis performed on April 1, 2008, no analytes were found in the laboratory blank. However low-level concentrations of chloroform and methylene chloride were found in the trip blank, sample TS-01. Therefore, the similar positive concentrations of these compounds in the accompanying samples SF-03 and SF-04 were raised to the reporting limit and qualified as non-detected (flagged "U") due to apparent contamination in handling.

In the metals analyses for laboratory Report No. NRD0081, low-level concentrations of calcium and manganese were detected in the method blank. In addition, a low-level concentration of aluminum was detected in the closing CCB for the sample report. No qualifications were warranted because associated sample results were greater than the corresponding reporting limits.

#### INDUCTIVELY COUPLED PLASMA - INTERFERENCE CHECK SAMPLES (ICP-ICS)

All ICP-ICS data were within the QC limits, with the following exception. The closing ICP-ICS displayed a recovery of 74 percent for thallium, which is below the QC limit of 80 to 120 percent. Because the possibility of false negatives exists, the thallium results for samples SF-03 and SF-04 were qualified as estimated (flagged "UJ").

#### **SYSTEM MONITORING COMPOUNDS (SURROGATES)**

All surrogate recoveries were within the laboratory-specified control limits, with the following exceptions. In the EPH analyses of laboratory Report No. NRC2505, the recovery for terphenyl- $d_{14}$  could not be determined because of the 100-fold dilution required by the sample matrix. No qualifications are applied based on surrogate failures due to dilution.

In the SVOC analysis of sample VG-01 and the dilution of sample VG-02, recoveries for the surrogate nitrobenzene-d<sub>5</sub> were biased high (138 and 132 percent, respectively) and outside the QC limit of 22 to 104 percent. No qualifications are applied when only one SVOC surrogate is outside QC limits.

#### MATRIX SPIKE/MATRIX SPIKE DUPLICATES

MS/MSD recoveries and RPD results were within the specified control limits, with the following exceptions. No MS/MSD analyses were provided for the VOC analyses, due to insufficient sample. The LCS/LCSD results provided adequate information on accuracy and precision, so no qualifications are warranted for this data gap.

In the MS/MSD analyses of metals sample SF-01, MS/MSD recoveries for thallium (71 and 74 percent) were biased low and outside QC limits of 75 to 125 percent. The MS recovery (140 percent) and the RPD (25 percent) for chromium exceeded the applicable QC limits. Therefore, results for thallium were qualified as estimated (flagged "UJ") in the associated solid samples (SF-01, SF-01, SF-02 Dup, VG-01, and VG-01). The chromium irregularity seems to be the consequence of an irregular distribution of the metal within the soil, so only the chromium result for sample SF-01 was qualified as estimated (flagged "J"). Also for these MS/MSD analyses, recoveries of aluminum and iron could not be determined because the unspiked sample contained more than four times the amount of the spike. In addition, the laboratory does not evaluate a spike for calcium, magnesium, potassium, and sodium in the MS/MSD analyses, since these are essential nutrients and are ordinarily present at concentrations that overwhelm the spike added. No qualifications are warranted for these data gaps.



Mr. P. Gaughan November 26, 2008

In the MS/MSD analyses of metals sample SF-03, MS/MSD recoveries for thallium (65 and 67 percent) were biased low and outside QC limits of 75 to 125 percent. Therefore, results for thallium were qualified as estimated (flagged "UJ") in the associated soil samples (SF-03 and SF-04). Also for these MS/MSD analyses, recoveries of aluminum, iron, and manganese could not be determined because the unspiked sample contained much more than four times the amount of the spike. In addition, the laboratory does not evaluate a spike for calcium, magnesium, potassium, and sodium in the MS/MSD analyses, since these are essential nutrients and are ordinarily present at concentrations that overwhelm the spike added. No qualifications are warranted for these data gaps.

#### LABORATORY DUPLICATE SAMPLE ANALYSIS

Laboratory duplicate analyses were performed for total solids analysis. All results were within specified QC limits.

#### SPIKE SAMPLE ANALYSIS

The post digestion spike results were within QC limits.

#### **ICP SERIAL DILUTION**

The ICP serial dilution results, performed on a sample from another site, were within QC limits. However, arsenic, barium, cadmium, calcium, cobalt, copper, lead, potassium, and zinc in the ICP serial dilution performed on sample SF-04 had percent differences which exceeded the QC limit of 10 percent. The results for barium, calcium, and potassium in sample SF-04 were greater than 50 times the associated method detection limit (MDL) and were qualified as estimated (flagged "J") due to apparent matrix interference.

#### FIELD DUPLICATES

Samples SF-02 and SF-02 dup were collected as field duplicates. All RPDs were within the QC guideline of 50 percent for soil, with the following exceptions. In the metals analysis, chromium and potassium had RPDs of 60 and 58 percent, respectively, indicating an irregular distribution within the soil. In addition, GRO displayed an RPD of 74 percent, also indicating an irregular distribution within the soil. The results for chromium, potassium, and GRO in samples SF-02 and SF-02 Dup were qualified as estimated (flagged "J").

# LABORATORY CONTROL SAMPLES AND LABORATORY CONTROL SAMPLE DUPLICATES

All LCS and LCSD results were within the QC limits, with the following exceptions. In the VOC analysis performed on March 29, 2008, recoveries were biased high and outside specified QC limits for bromochloromethane (138 and 139 percent, versus a QC limit range of 70 to 135 percent) and 1,1,2-trichloroethane (130 and 128 percent, versus a QC limit range of 80 to 127 percent). No qualifications were required because bromochloromethane and 1,1,2-trichloroethane were not detected in the associated samples.

In the VOC analysis performed on April 1, 2008, recoveries were biased high and outside QC limits for carbon tetrachloride (140 percent, versus a QC limit range of 75 to 137 percent) and tetrachloroethene (132 percent, versus a QC limit range of 76 to 128 percent) in the LCS, but not in the LCSD (130 and 126 percent, respectively). No qualifications were required because the average recoveries of both carbon tetrachloride and tetrachloroethene were within QC limits and neither compound was detected in any of the accompanying samples.



#### **DILUTION BY ADDITION OF SOLVENT**

The VOC fractions for samples SF-01, SF-02, SF-02 Dup, VG-01, and VG-02 were analyzed at 50-fold dilutions because of interference from the organic compounds in the samples. This interference was sufficient to produce low area counts for the third (last) internal standard, 1,4-dichlorobenzene-d<sub>4</sub>, in the undiluted samples. Therefore, only the diluted VOC results for those samples were reported, with elevated detection limits for non-detected compounds. Similarly, the EPH extracts for samples SF-01, SF-02, SF-02 Dup, VG-01, and VG-02 were analyzed at 100-fold dilutions to place the results within the instrument calibration range and because of interference from the organic compounds in the samples.

The GRO fractions for all samples discussed in this report were analyzed at 50-fold dilutions because of a method requirement of methanol extraction for the Tennessee GRO method.

The SVOC extract of sample SF-02 Dup was re-analyzed at a 2-fold dilution to bring the concentration of bis(2-ethylhexyl)phthalate within calibration range. The SVOC extract of sample VG-02 was analyzed at a 5-fold dilution to bring the concentration of bis(2-ethylhexyl)phthalate within calibration range.

#### **DILUTION BY RE-EXTRACTION AND REANALYSIS**

No dilution by re-extraction and reanalysis was required for samples in this data package.

#### **SECOND COLUMN CONFIRMATION**

For the pesticide and PCB analyses, the retention time confirmation between the primary ("front") and secondary ("back") columns and the quantitative differences between the columns for the calibration standards were within QC limits. No analytes were detected in sample SF-03.

#### INTERNAL STANDARDS

In the VOC and SVOC analyses, the internal standard area counts and retention times in the samples were within QC limits established using the associated continuing calibration standard data, with the following exception. In the VOC analyses, the internal standard recovery for 1,4-dichlorobenzene-d<sub>4</sub> were biased low and outside QC limits in all samples for the undiluted analytical runs in report No. NRC2505. Only results from the diluted analytical runs were reported, so no qualifications are warranted.

#### TARGET ANALYTE IDENTIFICATION

The relative retention times (RRT) of the reported compounds in the VOC, SVOC, organochlorine pesticide, and PCB analyses were within  $\pm 0.06$  RRT units of the standard RRTs. For each detected analyte in the VOC and SVOC analyses, all ions present in the standard mass spectrum at a relative intensity greater than 10 percent were present in the sample spectrum and agreed within  $\pm 20$  percent between the standard and sample spectra. The laboratory used manual integration to achieve good quality results for the SVOC 1-methylnaphthalene result for samples SF-01 and VG-01.

#### ANALYTE QUANTITATION AND REPORTED DETECTION LIMITS

Sample results were checked for proper dilution factors, volumes, masses, and adjustments for moisture content. Sample results and reporting limits were correctly calculated. Sample results below the calibration range, or less than the laboratory reporting limits but greater than the MDLs, were qualified (flagged "J") as estimated.



#### SYSTEM STABILITY AND PERFORMANCE

No signs of degraded instrument performance were observed. Analytical systems were judged to have been within control and stable during the analyses.

#### **OVERALL ASSESSMENT OF DATA**

The overall quality of this data package was acceptable. Results for acetone in all samples were qualified as rejected (flagged "R") because of RRF irregularities in the initial and/or continuing calibrations. These analytes may or may not be present in these samples. The VOC data were qualified because of continuing calibration, calibration verification, and trip blank irregularities. The SVOC data were qualified because of continuing calibration and calibration verification irregularities. The organochlorine pesticide data and the EPH data were qualified because of continuing calibration irregularities. The TAL metals data were qualified because of calibration verification, ICP-ICS, MS/MSD, ICP serial dilution, and field duplicate irregularities. The GRO data were qualified because of field duplicate irregularities. The PCB data were reported with no qualification. Results less than the laboratory reporting limits but greater than the method detection limits, were qualified (flagged "J") as estimated. All data can be used as qualified, with the exception of results for acetone in all samples, which were rejected.

Please call me at (678) 775-3104 if you have any questions regarding this data validation report.

Sincerely,

Jessica Vickers

START III Quality Assurance Manager

Enclosures (2)

cc: Katrina Jones, EPA Project Officer

Darryl Walker, EPA Alternate Project Officer

Angel Reed, Tetra Tech START III Document Control Coordinator



#### **ENCLOSURE 1**

# FIXED LABORATORY ANALYTICAL RESULTS SHEETS WITH HAND-ENTERED DATA VALIDATION QUALIFIERS FOR TESTAMERICA ANALYTICAL TESTING CORPORATION REPORTS NO. NRC2505 AND NRD0081

(32 Pages)





2950 Foster Creighion Road Nashville TN 37204 " 860-765-6960 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth, GA 30096
Attn Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER

Project Number Received: Oliver Springs Oil Well ER 03/29/08 06:45

Total Metals by EPA Method 6010B   Aluminam	Analyte	Result	Flag	Units	MDL	MRL	Dilutio Facto		Method	Batch
Center Chemistry Parameters	Sample ID: NRC2505-01 (S	F-01 - Soil) Sample	d: 03/28/	08 15:35	*******	*********				
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Total Metals by EPA Method 6010B  Alturinam  17100  Alturinam  17100  Authrinam  171		70.6		B.r	0.500	0.500				
Aluminum	•			70	0 300	0.300	ı	04/03/08 09:49	SW-846	8040210
Artimony  ND  mg/kg dry  193  138  1 04/04/08 14:00  SW846 6010B  803  Arzenie  198  mg/kg dry  124  138  1 04/04/08 14:00  SW846 6010B  803  Beryllitim  0 441  mg/kg dry  0 689  138  1 04/04/08 14:00  SW846 6010B  803  Chromitim  121  mg/kg dry  0 413  138  1 04/04/08 14:00  SW846 6010B  803  Chromitim  121  mg/kg dry  0 413  138  1 04/04/08 14:00  SW846 6010B  803  Chromitim  122  mg/kg dry  0 555  mg/kg dry  0 555  mg/kg dry  1 17  1 38  1 04/04/08 14:00  SW846 6010B  803  Chromitim  1 21  mg/kg dry  0 555  mg/kg dry  0 551  1 38  1 04/04/08 14:00  SW846 6010B  803  Chromitim  1 21  mg/kg dry  0 555  mg/kg dry  0 551  1 38  1 04/04/08 14:00  SW846 6010B  803  Chromitim  1 24  Mg/kg dry  0 551  Mg/kg dry  0 564  1 38  1 04/04/08 14:00  SW846 6010B  803  Chromitim  1 24  Mg/kg dry  1 17  1 38  1 04/04/08 14:00  SW846 6010B  803  Chromitim  1 24  Mg/kg dry  1 17  1 38  1 04/04/08 14:00  SW846 6010B  803  Chromitim  1 24  Mg/kg dry  1 17  1 38  1 04/04/08 14:00  SW846 6010B  803  Mg/kg dry  1 17  1 38  1 04/04/08 14:00  SW846 6010B  803  Mg/kg dry  1 17  1 38  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 17  1 38  1 04/04/08 14:00  SW846 6010B  803  Mg/kg dry  1 17  1 38  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 17  1 38  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 17  1 38  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 17  1 38  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 17  1 38  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 17  1 38  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 6010B  803  Mg/kg dry  1 18  1 04/04/04 14:00  SW846 601										
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Barium	,		U				1	04/04/08 14:00	SW846 6010B	8034669
Beryflium								04/04/08 14:00	SW846 6010B	8034669
Cadenium  121							•	04/04/08 14:00	SW846 6010B	8034669
Caleium 936 mg/kg dry 4 13 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 551 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 551 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 551 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 551 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 0 689 138 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 17 18 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 18 1 04/04/08 14-00 SW846 60108 803 mg/kg dry 1 18 1 18 1 18 1 18 1 18 1 18 1 18 1	,		<b>∮</b> 0 }	mg/kg dry		138	1	04/04/08 14:00	5W846 6010B	8034669
Cartenium   936			Ţ	mg/kg dry	0 276	1 38	1	04/04/08 14:00	SW846 6010B	8034669
Chobalt 3.28 mg/kg dry 0.551 138 1 0.4/04/08 14:00 SW846 6010B 803- Copper 5.87 mg/kg dry 0.964 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Iron 14300 MiA-m mg/kg dry 0.689 1.38 1 0.4/04/08 14:00 SW846 6010B 803- Magnesium 1040 mg/kg dry 0.689 1.38 1 0.4/04/08 14:00 SW846 6010B 803- Magnesium 1040 mg/kg dry 0.413 1.38 1 0.4/04/08 14:00 SW846 6010B 803- Magnesium 1040 mg/kg dry 0.413 1.38 1 0.4/04/08 14:00 SW846 6010B 803- Magnesium 1110 mg/kg dry 0.413 1.38 1 0.4/04/08 14:00 SW846 6010B 803- Nickel 7.30 mg/kg dry 1.52 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Selenium 4.71 mg/kg dry 1.52 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Selenium 4.71 mg/kg dry 1.52 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Selenium 4.71 mg/kg dry 1.52 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Selenium 4.71 mg/kg dry 1.52 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Magnesium 4.71 mg/kg dry 1.52 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 1.52 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 1.52 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW846 6010B 803- Mg/kg dry 2.62 2.76 1 0.4/04/08 14:00 SW				mg∕kg đry		13.8	l	04/04/08 14:00	SW846 5010B	8034669
Copper			Walter R. Zacon	mg/kg dry	0 551	1.38	ŧ	04/04/08 14:00	SW846 6010B	8034669
Copper   S 87				mg∕kg dry	1 10	1 38	3	04/04/08 14:00		8034669
Tring				mg/kg dry	0 964	2 76	1			8034669
Lead		14300	MHA	mg/kg dry	117	138	1			8034669
Magnesium		20.4			0 689	1 38	ſ			8034669
Manganese         314         mg/kg dry         0 413         1 38         1 04/04/08 14:00         SW846 6010B         8034           Nickel         7.30         mg/kg dry         0 689         1 38         1 04/04/08 14:00         SW846 6010B         8034           Potassium         1110         mg/kg dry         1 138         1 04/04/08 14:00         SW846 6010B         8034           Selenium         4.71         mg/kg dry         1 52         2 76-1         1 04/04/08 14:00         SW846 6010B         8034           Sidver         ND         mg/kg dry         0 689         1 38         1 04/04/08 14:00         SW846 6010B         8034           Sodium         156         mg/kg dry         0 689         1 38         1 04/04/08 14:00         SW846 6010B         8034           Thallium         ND         Mg/kg dry         2 62         2 76         1 04/04/08 14:00         SW846 6010B         8034           Zine         46.3         mg/kg dry         2 62         2 76         1 04/04/08 14:00         SW846 6010B         8034           Mercury         0.0555         mg/kg dry         1 52         1 3 8         1 04/04/08 14:00         SW846 6010B         8034           Mercury by EPA Methods 7470A/7471A	*	1646		mg/kg dry	6 20	138	1			8034669
Nickel 7.30 mg/kg dry 0 689 1 38 1 04/04/08 14:00 SW846 6010B 8034 138	Manganese	314			0 413	1 38	1			
Potassium Potass	Nickel	7.30			0 689		1			
Selenium   4.71	Potassium	1110			413					8034669
Solition	Selenium	4.71								8034669
156	Silver	ND	U							8034669
Thallium	Sodium	156	0							8034669
Sample   S	[hallium	ND LJS	Marken				-			8034669
### Action	/anadium	=	<del>-</del>							8034669
Mercury by EPA Methods 7470A/7471A  Mercury  0.0555  mg/kg dry  0.0421  0.140  1. 04/04/08 14:54  SW846 7471A  80400  Volatile Organic Compounds by EPA Method 8260B  Acctone  ND  RES  mg/kg dry  0.0634  0.189  50  0.3/31/08 14:11  SW846 8260B  80348  Remarke  ND  RES  mg/kg dry  0.0634  0.189  50  0.3/31/08 14:11  SW846 8260B  80348  Remarke  Remarke  Remarke  ND  RES  mg/kg dry  0.0634  0.189  50  0.3/31/08 14:11  SW846 8260B  80348  Remarke  Remarke  Remarke  Remarke  Remarke  Remarke  ND  RES  mg/kg dry  0.0634  0.189  50  0.3/31/08 14:11  SW846 8260B  80348  Remarke  R	line									8034669
Mercury 0.0555	Mercury by EPA Methods 7470/	√/7471A		,			ŕ	0-70-708 14.00	01100 0010D	003400y
Volatile Organic Compounds by EPA Method 8260B  Acetone  NB RTSI mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromobenzene  ND RT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromochloromethane  ND RT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromochloromethane  ND RT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  ND RT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  ND RT mg/kg dry 0 0502 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  ND RT mg/kg dry 0 0502 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  ND RT mg/kg dry 0 149 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  ND RT mg/kg dry 0 149 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  ND RT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  ND RT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 RTT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 RTT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 RTT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 RTT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 RTT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 RTT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 RTT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 RTT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Bromomethane  O.882 RTT mg/kg dry 0 063			(i)	me/ka dev	0.0421	n 14n	•	64/04/00 54:54	6151646 34314	00.450.85
Acetone  Acetone  NB RB mg/kg dry 2 37 4 73 50 03/31/08 14:11 SW846 8260B 80348 Benzene  ND RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromobenzene  ND RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromodichloromethane  ND RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromodichloromethane  ND RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  ND RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  ND RB mg/kg dry 0 0502 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  ND RB mg/kg dry 0 149 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  ND RB mg/kg dry 0 149 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  ND RB mg/kg dry 0 149 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  ND RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.582 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  1.00 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0.0852 RB mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348 Bromomethane  0	Volatile Organic Compounds by	EPA Method 8260B	E. sell			0.110	•	04/04/08 14:54	3W840 /4/1A	8040053
ND   RT   mg/kg dry   0 0634   0 189   50   0 3/31/08 14:11   SW846 8260B   80 348   80 80 80 80 80 80 80 80 80 80 80 80 80			PPSI	van Aras das.	27	4 171	<b></b>			
ND   Rt   mg/kg dry   0 0534   0 189   50   0 3/31/08 14:11   SW846 8260B   80348   8040	enzene									8034828
Stromochloromethane			and the same of th							8034828
ND   R   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   80										8034828
ND   RE   mg/kg dry   0 0502   0   89   50   0   0   3/31/08   14:11   SW846 8260B   80348			- 2							8034828
romomethane ND C RL mg/kg dry 0 149 0 189 50 03/31/08 14:11 SW846 8260B 80348  Butanone NP REI mg/kg dry 0 1473 4 73 50 03/31/08 14:11 SW846 8260B 80348  be-Butylbenzene 0.582 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  Butylbenzene 1.00 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  rt-Butylbenzene 0.0852 RtT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  rt-Butylbenzene 0.0852 RtT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  arbon disulfide ND RT mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348			0					03/31/08 14:11	SW846 8260B	8034828
### Patranone   NEP   REI   mg/kg dry   0 473   50   03/31/08 14:11   SW846 8260B   80348   #### Re-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### Re-Butylbenzene   1.00   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   1.00   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   1.00   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   ##### RE-Butylbenzene   0.0852   RET-Butylbenzene   0.0852   RET-Butylbenzene   0.0852   RET-Butylbenzene   0.0834   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.582   mg/kg dry   0 0634   0 189   50   03/31/08 14:11   SW846 8260B   80348   #### RE-Butylbenzene   0.0852   RET-Butylbenzene   0.0852   RET-Butylben								03/31/08 14:11	SW846 8260B	8034828
### 1.00 #### 1.00 ##### 1.00 ##### 1.00 ##########			The same of the sa					·	SW846 8260B	8034828
Butylbenzene 1.00 mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  rt-Butylbenzene 0.0852 Rt mg/kg dry 0 0634 0 189 50 03/31/08 14:11 SW846 8260B 80348  arbon disulfide ND R1 mg/kg dry 0 0634 0 473 50 03/31/08 14:11 SW846 8260B 80348								03/31/08 14:11	SW846 8260B	8034828
rt-Butylhenzene 0.0852 Rt mg/kg dry 0.0634 0.189 50 03/31/08 14:11 SW846 8260B 80348 arbon disulfide ND R1 mg/kg dry 0.0634 0.473 50 03/31/08 14:11 SW846 8260B 80348	•							03/31/08 14:11	SW846 8260B	8034828
arbon disulfide ND V 11 mg/kg dry 0 0634 0 473 50 03/31/08 14:11 SW846 8260B 80348	•						50	03/31/08 14:11	SW846 8260B	8034828
10 03/31/08 14:11 SW846 8260B 80348	-		All Allen				50	03/31/08 14:11	SW846 8260B	8034828
			~10	mg/kg dry		0 473	50	03/31/08 14:11	SW846 8260B	8034828
7. mg/kg aly 5 0034 0.189 50 03/31/08 14:11 SW846 8260B 80348	arbon Tetrachloride	ND		mg/kg dry		0.189	50	03/31/08 14:11	SW846 8260B	8034828
100robenzenc ND RF1 mg/kg dry 0.0634 0.189 50 03/31/08.14-11 SW846.9260B 903/8		1		mg/kg dry	0.0634	0 189				8034828
oloredibromemethane ND RLI mg/kg dry 0.0634 0.189 50 03/31/08.14-11 SW846.8260R 80348				ng/kg dry	0 0634	0 189				8034828
aloroethane ND NV Prof 4 0.424	dorecthane	ND 😼	Rin :	ng/kg dry	0 0634	0 473				8034828





2960 Foster Craighton Road Nashville TN 37204 " 800-765-0980 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth, GA 30096

Attn Jessica Vickers

Work Order:

NRC250S

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

03/29/08 05:45

Ansiyte	Result	Flag	Units	MDL	MRL	Dilutio Facto		Method	Batch
Sample ID: NRC2505-01 (SF	-01 - Soil) - cont.	Sampled	1: 03/28/08	15:35		******	*************		
Volatile Organic Compounds by	EPA Method 82601	3 - cont.							
Chloroform	ND $oldsymbol{U}$	e RIA	man/henralurs	0 0634	0 189	70			
Chloromethane	U ND		mg/kg dry mg/kg dry	0.0833	0 189	50	03/31/08 14:11	SW846 8260B	8034828
2-Chlorotoluene	ND U	Ria	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
4-Chlorotoluene	ND I	R4~4		0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
1 2-Dibromo-3-chicropropane	ND to A	2	mg/kg dry	0 0947	0 473	50	03/31/08 14:11	SW846 8260B	8034828
1.2-Dibromoethane (EDB)	ND	R.L.	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
Dibromomethene	ИD	RIL I	mg/kg dry	0 0034	0 189	50	03/31/08 14:11	SW846 8260B	8034828
I.4-Dichlorobenzene	ND	RL i	mg/kg dry	0 0606	0 189	50	03/31/08 14:11	SW846 8260B	8034828
1.3-Dichlorobenzene	ДИ	RI I	mg/kg dry.	0 0502	0 189	50 50	03/31/08 14:11	SW846 8260B	8034828
1.2-Dichlorobenzene	ND I	a RD	mg/kg dry	0 0502			03/31/08 14.11	SW846 8260B	8034828
Dichlorodifluoromethane	ND 😂		mg/kg dry	0 0834	0 189	50	03/31/08 14:11	SW846 8260B	8034828
1,1-Dichleroethane	ND	BAL 1	mg/kg dry		0 189	50	03/31/08 14:11	SW846 8260B	8034828
1,2-Dichloraethane	ND	RI()	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
cis-1,2-Dichleroethene	ND	RE I	mg/kg dry	0 0757	0 189	50	03/31/08 14:11	SW846 8260B	8034828
1.1-Dichloroethene	ND	RÉ!	mg/kg dry	0 0634	0 189	50	03/31/08 14.11	SW846 8260B	8034828
trens-1.2-Dichloroethene	ND	ROD I	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
1,3-Dichloropropane	ND	18 <u>1</u> 1	mg/kg dry	0 0634	0 189	50	03/31/08 14.11	SW846 8260B	8034828
I 2-Dichloropropane	ND	RŽ.	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
2,2-Dichloropropane	ND I	RDI	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
cis-1 3-Dichloropropene	ND	RI I	mg/kg dry	0 0398	0 189	50	03/31/08 14:11	SW846 8260B	8034828
trans-1 3-Dichloropropene	ND	127.1	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
1,1-Dichloropropene	ND W	RLI.	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
Ethylbenzene	0274	t Standon	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
Hexachlorobutadiene	ND <b>V</b>	FRANK	mg/kg dry	0 0634	0 189	50	03/31/08 14.11	SW846 8260B	8034828
2-Hexanone	V D V		mg/kg dry	0 0596	0 473	50	03/31/08 14.11	SW846 8260B	8034828
Isopropylbenzene	0.312	A. AICFAI	mg/kg dry	0 385	4 73	50	03/31/08 14.11	SW846 8260B	8034828
p-Isopropyltoluene			mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
Methyl tert-Butyl Ether	9.383 ND <b>V</b>	York. 1	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
Methylene Chloride	8	Rtu	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
4-Methyl-2-pentanone	ND	RÍDI RÍDI	mg/kg dry	0 329	0 947	50	03/31/08 14:11	SW846 8260B	8034828
Naphthalene	ND 🕊	RM	mg/kg dry	0 403	4 73	50	03/31/08 14:11	SW846 8260B	8034828
•	1.71		mg/kg dry	0 143	0 473	50	03/31/08 14:11	SW846 8260B	8034828
n-Propylbenzene	0.726		mg/kg dry	0 0502	0 189	50	03/31/08 14:11	SW846 8260B	8034828
Styrene	ND V	Riji	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
1,1,1,2-Tetrachloroethane	ND	Rij	mg/kg dry	0 0473	0 189	50	03/31/08 14:11	SW846 8260B	8034828
1,1,2,2-Tetrachloroethane	ND	Rf.	mg/kg dry	0 0634	0 189	50	03/31/08 14-11	SW846 8260B	8034828
Tetrachloroethene	ND 🐓	RJ/I	mg/kg dry	0 0634	0 189	50	03/31/08 14.11	SW846 8260B	8034828
Inluene	0.161	RETED	mg/kg dry	0 0634	0 189	50	03/31/08 14:11	SW846 8260B	8034828
2.3-Trichlorobenzene	ND 🗘	RLJ	mg/kg dry	0 0625	0 189	50	03/31/08 14:11	SW846 8260B	8034828
2.4-Trichlorobenzene	ND	RC1	mg/kg dry	0 0615	0 189	50	03/31/08 14:11	SW846 8260B	8034828
1.2-Irichloroethane	ND I	R.y/l	mg/kg dry	0 0966	0.473	50	03/31/08 (4:11	SW846 8260B	8034828
,1,1-Trichloroethane	ND [	RLI	mg/kg dry	0 0634	0 189		03/31/08 14:11	SW846 8260B	8034828
Frichloroethene	ND	$\mathbb{R}^{l_2}$	mg/kg dry	0 0265	0 189		03/31/08 14:11	SW846 8260B	8034828
frichlorofluoromethane	ND 🎶	RIL1	mg∕kg dry	0 0634	0 189		03/31/08 14.11	SW846 8260B	8034828
2,3-Trichloropropane	ND LLT	REL I	mg/kg dry	0 0521	0 189		03/31/08 14.11	SW846 8260B	8034828
,3,5-1 rimethylbenzene	2.34		mg/kg dry	0 0634	0 189		03/31/08 14:11	SW846 8260B	8034828





2960 Foster Creighton Road Nashville TN 37204 " 800-765-0980 " Fax 615-726-3404

Client Terra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth GA 30096

Ann Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER

Project Number: Received: Oliver Springs Oil Well ER 03/29/08 06:45

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Facto		3 4 >3 *	*
Samula ID. ND Cosas at for as		• • • • • • • • • • • • • • • • • • • •				*********	DATE: HILL	Method	Batch
Sample ID: NRC2505-01 (SF-01 -	Soil) - cont. S	ampled:	03/28/08	15:35					
Volatile Organic Compounds by EPA		- cont							
1,2,4-Trimethylbenzene	5.62		mg/kg dry	0 120	0 189	50	03/31/08 14:11	SW846 8260B	8034828
Vinyl chloride	ND []	Peter Silver	mg/kg dry	0 0672	0 189	50	03/31/08 [4:1]	SW846 8260B	8034828
Xylenes, total	4.28		mg/kg dry	0 163	0 473	50	03/31/08 14:11	SW846 8260B	8034828
Sur 12-Dichloroethane-d4 (41-150%)	107 %					50	03/31/08 14 11	SW846 8260B	8034828
Surr Dibromofluoromethane (55-139%)	107 %					50	03/31/08 14 11	SW846 8260B	8034828
Surr Toluene-d8 (57-148%)	96 %					50		SW846 8260B	8034828
Surr 4-Bromofluorobenzene (58-150%)	95 %					50	03/31/08 14 11 03/31/08 14 11	5W846 8260B	8034828
Semivolatile Organic Compounds by I	EPA Method 82	70C				70	03/32/00 14 11	3//040 02000	0021020
Acenaphthene	ND	V	mg/kg dry	0 0438	0 471	ŧ	At the log 1 c. as	Ettipas gazara	A08184
Acenaphthylene	0 137	Ŏ	mg/kg dry	0 0453	0 471	ì	03/30/08 15:00	5W846 8270C	8034561
Anthracene	ND	Ŭ	mg/kg dry	0 0467	0 471	i	03/30/08 15:00	SW846 8270C	8034561
Benzo (a) anthracene	ND	Ĭ	mg/kg dry	0 0537	0 471	i	03/30/08 15:00 03/30/08 15:00	SW846 8270C	8034561
Benzo (a) pyrene	ND	8	mg/kg dry	0.0410	0.471	i	03/30/08 15:00	SW846 8270C SW846 8270C	8034561
Benzo (b) fluoranthene	ďИ	į	mg/kg dry	0 0453	0 471	1	03/30/08 15:00	SW846 8270C	8034561
Benzo (g.h,i) peryfene	ND		mg/kg dry	0.0410	0 471	1	03/30/08 15:00	SW846 8270C	8034561 8034561
Benzo (k) fluoranthene	ND		mg/kg dry	0.0410	0 471	i	03/30/08 15:00	SW846 8270C	8034561
4-Bromophenyl phenyl ether	ND	Í	mg/kg dry	0 157	0 471	i	03/30/08 15:00	SW846 8270C	8034561
Butyl benzyl phthalale	ND		mg/kg dry	0 126	0 471	I	03/30/08 15:00	SW846 8270C	8034561
Carbazole	ND	diversity of	mg/kg dry	0 233	0.471	Ī	03/30/08 15:00	SW846 8270C	8034561
4-Chloro-3-methylphenol	ND	STATE OF THE PARTY.	mg/kg dry	0 141	0 471	1	03/30/08 15:00	SW846 8270C	8034561
4-Chloroaniline	ND		mg/kg dry	0 409	0 471	i	03/30/08 15:00	SW846 8270C	8034561
Bis(2-chloroethoxy)methane	ND		mg/kg dry	0 157	0 471	į	03/30/08 15:00	SW846 8270C	8034561
Bis(2-chloroethyl)ether	ND		mg/kg dry	0 191	0 471	1	03/30/08 15:00	SW846 8270C	8034561
Bis(2-chloroisopropyf)ether	ND		mg/kg dry	0 144	0 471	1	03/30/08 15:00	SW846 8270C	8034561
2-Chloronaphthalene	ND	ng Seelan	mg/kg dry	0 0962	0 471	1	03/30/08 15:00	5W846 8270C	8034561
2-Chlorophenal	ND	200	mg/kg dry	0 154	0 471	1	03/30/08 15:00	SW846 8270C	8034561
4-Chlorophenyl phenyl ether	ND	¥	mg/kg dry	0 157	0 471	1	03/30/08 15:00	SW846 8270C	8034561
Chrysene	0.0641	0	mg/kg dry	0 0551	0 471	1	03/30/08 15:00	SW846 8270C	8034561
Dibenz (a h) antiracene	DM	v	mg/kg dry	0 0438	0 471	1	03/30/08 15:00	SW846 8270C	8034561
Dibenzofiran	ND	application of the control of the co	mg/kg dry	0 126	0 471	1	03/30/08 15:00	SW846 8270C	8034561
Di-n-butyl phthalate	ND	9	mg/kg dry	0 122	0 471	1	03/30/08 15:00	SW846 8270C	8034561
A-Dichlorobenzene	ND	Special Control	mg/kg dry	0 163	0 471	1	03/30/08 15:00	SW846 8270C	8034561
,2-Dichlorobenzene	ND	Nicota I	mg/kg dry	0 124	0 471	i	03/30/08 15:00	SW846 8270C	8034561
3-Dichlorobenzene	ND		mg/kg dry	0 113	0 471	1	03/30/08 15:00	SW846 8270C	8034561
3-Dichlorobenzidine	ND		mg/kg dry	0 382	0 943	1	03/30/08 15:00	SW846 8270C	8034561
4-Dichlorophenol	ND	1	mg/kg dry	0 123	0 47!	1	03/30/08 15:00	SW846 8270C	8034561
Diethyl phthalate	ND		mg/kg dry	0 0707	0 471	1	03/30/08 15:00	5W846 8270C	8034561
,4-Dimethylphenol	ND	į.	mg/kg dry	0 397	0 471	1	03/30/08 15:00	SW846 8270C	B034561
First 2 mathemate	ND		mg/kg dry	0 124	0 471	J	03/30/08 15:00	SW846 8270C	8034561
6-Dinitro-2-methylphenol	ND		mg/kg dry	0 129	1 18	1	03/30/08 15:00	SW846 8270C	8034561
,4-Dinitrophenol 6-Dinitrotoluene	ND		mg/kg dry	0 191	1 18	t	03/30/08 15:00	SW846 8270C	8034561
6-Dimitrotoluene 4-Dinitrotoluene	ND		mg/kg dry	0 157	0 471	i .	03/30/08 15:00	SW846 8270C	8034561
4-Daninoxoluene	ND	A.	mg/kg dry	0 124	0 471	1 4	03/30/08 15:00	SW846 8270C	8034561





2960 Foster Creighton Road Nashville TN 37204 " 900-765-0990 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth, GA 30096

Atm Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

03/29/08 06:45

#### ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Facto	()	Method	Batel
Sample ID: NRC2505-01 (SF-01 -	Soil) - cont.	Sampled	i: 03/28/08	15:35	************		*************	*************	*********
Semivolatile Organic Compounds by E	PA Method 8	270C - cc	int						
Di-n-octyl phthalate	ND	U		מימו ה	0.491	_			
Bis(2-ethylhexyl)phthalate	ND	S	mg/kg dry	0 187	0 471	1	03/30/08 15:00	SW846 8270C	803456
Fluoranthene	0.0551	(ī)	mg/kg dry	0 157 0 0481	0 471	1	03/30/08 15:00	SW846 8270C	803456
Fluorene	ND	4	mg/kg dry	0 0551	0 471 0 471	ī	03/30/08 15:00	SW846 8270C	803456
Hexachiorobenzene	ND	1	mg/kg dry mg/kg dry	0 117	04/1	1	03/30/08 15:00	SW846 8270C	8034561
Hexachlorobutadiene	ND	350	mg/kg dry	0 153	0 471	1	03/30/08 15:00	SW846 8270C	8034561
Hexachlorocyclopentadiene	ND	200	mg/kg dry	0 157	0471	1	03/30/08 15:00	SW846 8270C	8034561
Hexachloroethane	ND		mg/kg dry	0 148	0471	1	03/30/08 15:00	5W846 8270C	8034561
Indeno (1.2.3-cd) pyrene	ND	and the latest and th	mg/kg dry	0 0438	0 471	1	03/30/08 15:00	SW846 8270C	8034561
fsophorone	ND	V	mg/kg dry	0 141	0 471		03/30/08 15:00	SW846 8270C	8034561
2-Methylnaphthalene	0 393	Ŏ	mg/kg dry	0 0467	0 471	1	03/30/08 15:00	SW846 8270C	8034561
2-Methylphenol	סא U	المست	mg/kg dry	0 140	0471	1	03/30/08 15:00	SW846 8270C	8034561
3/4-Methylphenal	ND U		mg/kg dry	0 205	0471	1	03/30/08 15:00	SW846 8270C	8034561
Naphthalene	0.202	0	mg/kg dry	0 0580	0 471	1	03/30/08 15:00	SW846 8270C	8034561
3-Nitroaniline	ND	U	mg/kg dry	0 156	J 18	1	03/30/08 15:00	SW846 8270C	8034561
2-Nitroaniline	ND	T	mg/kg dry	0 157	1 18	1	03/30/08 15:00	SW846 8270C	8034561
4-Nitroaniline	ND	Ş	mg/kg dry	0 389	1 18	,	03/30/08 15:00	SW846 8270C	8034561
Nitrobenzene	ND	Ĭ	mg/kg dry	0 150	0 471	1	03/30/08 15:00	SW846 8270C	8034561
f-Nitrophenol	ND	Į	mg/kg dry	0 390	I 18	, 1	03/30/08 15:00	SW846 8270C	8034561
2-Nitrophenol	МD		mg/kg dry	0 279	0.471	1 [	03/30/08 15:00	SW846 8270C	8034561
N-Nitrosodiphenylamine	ND	V	mg/kg dry	0 154	0 471	i	03/30/08 15:00	SW846 8270C	8034561
N-Nitrosodi-n-propylamine	ND UJ	<b>.</b>	mg/kg dry	0 173	0 471	1	03/30/08 15:00	SW846 8270C	8034561
Pentachlorophenol		)	mg/kg dry	0 105	1 18	1	03/30/08 15:00	SW846 8270C	8034561
henanthrene	0 192		mg/kg dry	0 0481	0.471	1	03/30/08 15:00	SW846 8270C	8034561
Phenol	ND L	ad The same	mg/kg dry	0 0976	0 471	1	03/30/08 15:00	SW846 8270C	8034561
yrene	0.0764	0	mg/kg dry	0 0580	0 471	1	03/30/08 15:00	SW846 8270C	8034561
,2,4-Trichlorobenzene	ND (	1	mg/kg dry	0 157	0 471	1	03/30/08 15:00	SW846 8270C	8034561
-Methylnaphthalene	0.343	. O	mg/kg dry	0.0453	0 471	1	03/30/08 15:00 03/30/08 15:00	SW846 8270C SW846 8270C	8034561
4.6-Trichtorophenol	ND (	) ····	mg/kg dry	0 123	0 471	i	03/30/08 15:00		8034561
,4,5-Trichlorophenol	ND (	)	mg/kg dry	0 0962	118	1	03/30/08 15:00	SW846 8270C SW846 8270C	8034561
urt Terphenyl-d14 (26-128%)	57%	•			1,15				8034561
ar 24.6-Tribromophenol (20-132%)	70 %						03/30/08 15 00	SW846 8270C	8034561
ar Phenal-d5 (23-113%)	36 %					I	03/30/08 15 00	S#/846 8270C	8034561
ur 2-Fluorobiphenyl (19-109%)						1	03/30/08 15 00	SW846 8270C	8034561
	.58 %					1	03/30/08 15 -00	SW846 8270C	8034561
ur 2-Fluorophenol (19-105%)	33 %					I	93/30/08 15 00	SW846 8270C	8034561
or Nitrobensene-d5 (22-104%)	55%						03/30/08   5 00	SW846 8270C	8034561
xtractable Petroleum Hydrocarbons						- '		- : 0 : 0 0 0 0 0 0	
stractable Petroleum Hydrocarbons (EPH)	3590			646	570				
77 o-Terphenyl (50-150%)	*	236	mg/kg dry	545	562		04/02/08 17:43	IDHE	8034655
, , ,	*	20%	tuon .			100	14/02/08 17 43	<i>TDHE</i>	8034655
urgeable Petroleum Hydrocarbons									
RO (C6-C10) TN	64.6		mg/kg dry	0 564	5 64	50	04/02/08 20:17	IN COO TOES	00 100 15
rr a.a a-Trifluorotohiene (52-145%)	77 %		aa/					IN GRO TOEC	8040247
						50 6	4/02/08 20:17	'N GRO TDEC	8040247

04/04/08

04/22/0 7 of 71: Page 5 of 53



2960 Foster Creighton Road Nashville TN 37204 "800-765-0980 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd Building 200. Suite 300

Duluth GA 30096

Attn Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER

Project Number: Received: Oliver Springs Oil Well ER 03/29/08 06:45

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Facto		Method	Batel
Sample ID: NRC2505-02 (SF-02	Soil) Sample	d: 03/2	8/08 16:02				A CAR COLORS OF STREET		
General Chemistry Parameters									
% Dry Solids	84.2		%	0 500	0.500	ļ	04/03/08 09:49	SW-846	8040210
Total Metals by EPA Method 6010B							0 11 00 10 00 10 11 10	571 G-10	5040210
Aluminum	15500		mg/kg dry	6 55	11.9	1	04/04/08 14:16	SW846 6010B	8034669
Antimony	U $U$		mg/kg dry	) 67	119	1	04/04/08 14 16	SW846 6010B	8034669
Arsenie	3 12		mg/kg dry	1 07	1 19	ī	04/04/08 14:16	SW846 6010B	8034669
Barium	69.3		mg/kg dry	0 595	2 38	į	04/04/08 14:16	SW846 6010B	8034669
Beryllium	ND 🔰		mg/kg dry	0 357	1 19	ĺ	04/04/08 14.16	SW846 6010B	8034669
Cadmium	1.57		mg/kg dry	0 238	1 19	1	04/04/08 14:16	SW846 6010B	8034669
Calcium	426		mg/kg dry	3 57	119	1	04/04/08 14:16	SW846 6010B	8034669
Chromium	33 5 🐧		mg/kg dry	0 476	l 19	1	04/04/08 14:16	SW846 6010B	8034669
Cobalt	3.21		mg/kg dry	0 952	1 19	i	04/04/08 14:16	SW846 6010B	8034669
Соррег	4.86		mg/kg dry	0 833	2 38	1	04/04/08 14 16	SW846 6010B	8034669
fron	19800		mg/kg dry	10.1	119	1	04/04/08 14 16	SW846 6010B	8034669
Lead	11.5		mg/kg dry	0 595	1 19	ì	04/04/08 14 16	SW846 6010B	8034669
Magnesium	993		mg/kg dry	5 36	119	1	04/04/08 14 16	SW846 6010B	8034669
Manganese	161		mg/kg dry	0 357	1 19	ì	04/04/08 14-15	SW846 6010B	8034669
Nickel	6.74		mg/kg dry	0 595	1 19	1	04/04/08 14:16	SW846 6010B	8034669
Potassium	975		mg/kg dry	35 7	119	1	04/04/08 14:16	SW846 6010B	8034669
Selenium	4.42		mg/kg dry	1 31	2 38	1	04/04/08 14:16	SW846 6010B	8034669
filver	ND ()		mg/kg dry	0 595	1 19	1	04/04/08 14:16	SW846 6010B	8034669
odium	165	$\mathcal{O}$	mg/kg dry	119	238		04/04/08 14:16	SW846 6010B	8034669
hallium	ND U	Cappe	mg/kg dry	2 26	2 38	ì	04/04/08 14:16	SW846 6010B	8034669
anadium	33.7		mg/kg dry	131	119	1	04/04/08 14:16	SW846 6010B	8034669
line	34.8		mg/kg dry	3 93	11.9	1	04/04/08 14:16	SW846 6010B	8034669
Mercury by EPA Methods 7470A/747	A								
Kercury	0.105	0	mg/kg dry	0 0348	0 116	i	04/04/08 15:00	SW846 7471A	8040053
Volatile Organic Compounds by EPA									
ectone	NE R	RTA	mg/kg dry	1 29	2 59	SO	03/31/08 15:09	SW846 8260B	8034828
cnzene	ND 🔰	rja Rja	mg/kg dry	0.0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
romobenzene	ND 🔰	ĸij.ŧ	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
romochloromethane	ND UJ°	кба	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
romodichloromethane	ND 🔱	RD1	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
ramoform	ND 🔰	Ŕij	mg/kg dry	0 0274	0 103		03/31/08 15:09	SW846 8260B	8034828
romomethane	ND UJ	RI21	mg/kg dry	0 0812	0 103		03/31/08 15:09	SW846 8260B	8034828
Butanone	ND A	Jin	mg/kg dry	0 259	2 59		03/31/08 15:09	SW846 8260B	8034828
c-Butylbenzene	ND	Risi	mg/kg dry	0 0347	0 103		03/31/08 15:09	SW846 8260B	8034828
Butylbenzene	ND	Riji	mg/kg dry	0 0347	0 103		03/31/08 15:09	SW846 8260B	8034828
t-Butylbenzene	ND	Rhi	mg/kg dry	0 0347	0 103		03/31/08 15:09	SW846 8260B	
rbon disulfide	DN	Ris	mg/kg dry	0 0347	0 259			SW846 8260B	8034828 8034828
rbon Tetrachloride	ND	Ka	mg/kg dry	0 0347	0 103			5W846 8260B	8034828 8034828
dorobenzene	ND	Ŕij	mg/kg dry	0 0347	0 103			5W846 8260B	
lorodibromomethane	ND	RIF1	mg/kg dry	0 0347	0 103			SW846 8260B	8034828 8034828
nioroethane	, P a	West.	· · · · · · · · · · · · · · · · · · ·				ノンにょ ひいひ もろこひり	2 YY 0411 A 7.0016	01/14/02/5





2960 Foster Creighton Road Nashvitte TN 37204 "800-765-0980 "Fax 615-726-3404

Client Tetra Tech EMI (7197)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth, GA 30096 Jessica Vickers Attn

Work Order: NRC2505

Oliver Springs Oil Well ER Project Name Oliver Springs Oil Well ER Project Number:

Received: 03/29/08 06:45

ANAY	VIICAI	DEPART

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Factor		Method	Batch
Sample ID: NRC2505-02 (SF-02	2 - Soil) - cont.	Sampled:	03/28/08	16:02			************		
Volatile Organic Compounds by Ef									
Chloroform	ND L	Rist	mg/kg dry	0 0347	0 103	50			
Chloromethane	ND <b>W</b>			0 0455	0 103		03/31/08 15:09	SW846 8260B	8034828
2-Chlorotoluene	ND	RIM	mg/kg đry mg/kg dry	0 0347	0 103	50 50	03/31/08 15:09	SW846 8260B	8034828
4-Chlorotoluene	ND	FeL )	mg/kg dry	0 0347	0 103		03/31/08 15:09	SW846 8260B	8034828
1,2-Dibromo-3-chloropropane	ND 19	Z RI	mg/kg dry	0 0517	0 259	50 50	03/31/08 15:09	SW846 8260B	8034828
1.2-Dibromoethane (EDB)	ND	PAC 1	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
Dibromomethane	ND	Řĺ <sub>b</sub> i	•	0 0279	0 103	50 50	03/31/08 15:09	SW846 8260B	8034828
1,4-Dichlorobenzene	ND	RAL 1	mg/kg dry	0 0331	0 103	50 50	03/31/08 15:09	SW846 8260B	8034828
1 3-Dichlorobenzene	ND	RDi	mg/kg dry mg/kg dry	0 0274	0 103	50	03/31/08 15:09	SW846 8260B	8034828
1,2-Dichlorobenzene	ND	Ři i		0 0347	0 103		03/31/08 15:09	SW846 8260B	8034828
Dichlorodifluoromethane	ND 🛂	201	mg/kg dry mg/kg dry	0 0347	0 103	50 50	03/31/08 15:09	SW846 8260B	8034828
1.1-Dichloroethane	ND ND	RE 1		0 0347	0 103	50 50	03/31/08 15:09	SW846 8260B	8034828
2-Dichloroethane	D	RE	mg/kg dry	0 0347	0 103		03/31/08 15:09	SW846 8260B	8034828
cis-1,2-Dichloracthene	ND	RI	mg/kg dry	0.0347	0 103	50	03/31/08 15 09	SW846 8260B	8034828
1.1-Dichloroethene	ND W	12131	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
trans-1.2-Dichloroethens	ND	RIŽI Pri i	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
1,3-Dichloropropane	ND	RDA	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
1 2-Dichleropropane	ND %	RISI	mg/kg dry	0 0347		50	03/31/08 15:09	SW846 8260B	8034828
2,2-Dichloropropane	D	REJ	mg/kg dry		0 103	50	03/31/08 15:09	SW846 8260B	8034828
eis-I,3-Dichloropropene	ИÐ	Ris.	mg/kg dry	0 0217 0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
trans-1_3-Dichloropropene	ND	REJ	mg/kg dry		0 103	50	03/31/08 15:09	SW846 8260B	8034828
1,1-Dichloropropene	ND	R	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
Ethylbenzene	ND	RI I	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
Hexachiorobutadiene	ND	RI I	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
2-Hexanone	ND 6		mg/kg dry	0 0326	0 259	50	03/31/08 15:09	SW846 8260B	8034828
Isopropylbenzene	ND I		mg/kg dry	0.211	2 59	50	03/31/08 15:09	SW846 8260B	8034828
p-Isopropyltoluene	םא סא	rui Rīji	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
Methyl tert-Butyl Ether	ND	Rul	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
Methylene Chloride	ND I	RC 1	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
4-Methyl-2-pentanone	ND I		mg/kg dry	0.180	0.517	50	03/31/08 15:09	SW846 8260B	8034828
Naphthalene	ND	<u>rti</u> rti	mg/kg dry	0 220	2 59	50	03/31/08 15:09	SW846 8260B	8034828
n-Propylbenzene	ND	ŘL I	mg/kg dry	0 0 781	0 259	50	03/31/08 15:09	SW846 8260B	8034828
Styrene	ND I	ICT 1	mg/kg dry	0 0274	0 103	50	03/31/08 15:09	SW846 8260B	8034828
i.l.,l.2-Tetrachloroethane	ND I	क्ष्मा क्ष्मा	mg/kg dry	0 0347	0 103	50	03/31/08 15:09	SW846 8260B	8034828
1.1.2.2-Tetrachloroethane		REL	mg/kg dry	0 0259	0 103		03/31/08 15:09	SW846 8260B	8034828
Tetrachloroethene	ND ND	RE	mg/kg dry	0 0347	0 103		03/31/08 15:09	SW846 8260B	8034828
Toluene	ND	REI REI	mg/kg dry	0 0347	0 103		03/31/08 15:09	SW846 8260B	8034828
1.2.3-Irichlorobenzene	ND ND	RE1	mg/kg dry	0 0347	0 103		03/31/08 15:09	SW846 8260B	8034828
1 2 4-Trichlorobenzone	Ð	RE I	mg/kg dry	0 0341	0 103		03/31/08 15:09	SW846 8260B	8034828
1 1 2-Trichloroethane	ND	R D	mg/kg dry	0 0336	0 103		03/31/08 15:09	SW846 8260B	8034828
1.1.1-Trichloroethane	ND	rei Rei	mg/kg dry	0 0528	0 259			SW846 8260B	8034828
Trichloroethene	ND		mg/kg dry	0 0347	0 103		3/31/08 15:09	SW846 8260B	8034828
Trichlorofluoromethane	ND	кра	mg/kg dry	0.0145	0 103			SW846 8260B	8034828
1,2,3-Trichloropropane	ND US	R <b>₽</b> 1	mg/kg dry	0 0347	0 103		3/31/08 15:09	SW846 8260B	8034828
1,3,5-Trimethylbenzene		Ri§i Ri≝	mg/kg dry	0 0284	0 103			SW846 8260B	8034828
1 - 11 menty to entrene	ND 🔰	KUT	mg/kg dry	0 0347	0 103	50 (	3/31/08 15:09	SW846 8260B	8034828





2960 Foster Creighton Road Nashville TN 37204 " 800-765-0980 \* Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd., Building 200, Suite 300

Duluth, GA 30096

Attn Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER

Project Number; Received. Oliver Springs Oil Well ER 03/29/08 06:45

AMAZ	1/1	SOA	r m	g ng g	r

Analyte	Result	Flag	Units	MDL	MRI.	Dilutio Factor		Method	Batcl
Sample ID: NRC2505-02 (SF-02 -	Soil) - cont. S	ample	1: 03/28/08	6:02		* - 1 - * * . *	~*·**************		
Volatile Organic Compounds by EPA	Method 8260B	- cont.		. 0,02					
1,2,4-Trimethylbenzene	ND U	RDi	una Grandini.	0.0057	<b>6.102</b>				
Vinyl chloride	ND I	Ŕ	mg/kg dry	0 0657 0 0367	0 103	50	03/31/08 15:09	SW846 8260B	8034828
Xylenes, total	ND 🍨	R Zi	mg/kg đry	0 0890	0 103 0 259	50	03/31/08 15:09	SW846 8260B	8034828
Sur 12-Dichloroethane-d4 (41-150%)	109 %	1CAST	mg/kg dry	0.0930	0.259	50	03/31/08 15:09	SW846 8260B	8034828
Surr Dibromofluoromethane (55-139%)						50	03/31/08 15 09	SW846 8260B	803482
Surr Toluene-d8 (57-148%)	106 %					50	03/31/08 15 09	SW846 8260B	8034828
	97%					50	03/31/08 15 09	5W846 8260B	8034828
Sur 4-Bromofluorobenzene (58-150%)	92 %					50	03/31/08 15 09	SW846 8260B	8034828
Semivolatile Organic Compounds by E	PA Method 82	70C							
Acenaphthene	ND U		mg/kg dry	0 0361	0.388	1	03/30/08 15:25	21110AE 02777	8024664
Acenaphthylene	ND \		mg/kg dry	0 0372	0.388	1	03/30/08 15:25	SW846 8270C SW846 8270C	8034561
Anthracene	ND		mg/kg dry	0 0384	0 388	,	03/30/08 15:25	SW846 8270C	8034561
Benzo (a) anthracene	DN		mg/kg dry	0 0442	0.388	į	03/30/08 15:25	SW845 8270C	8034561
Benzo (a) pyrene	ND		mg/kg dry	0 0338	0 388	1	03/30/08 15:25	SW846 8270C	8034561 8034561
Benzo (b) fluoranthene	СIИ		mg/kg dry	0 0372	0 388	į	03/30/08 15:25	5W846 8270C	8034561
Benzo (g.h,i) perylene	MD		mg/kg dry	0 0338	0 388		03/30/08 15:25	SW846 8270C	8034561
Benzo (k) fluoranthene	ND		mg/kg dry	0 0338	0 388	i	03/30/08 15:25	SW846 8270C	8034561
-Bromophenyl phenyl ether	ND		mg/kg dry	0 129	0 388	1	03/30/08 15:25	SW846 8270C	8034561
Butyl benzyl phthalate	ОИ		mg/kg dry	0 104	0 388	ì	03/30/08 15:25	SW846 8270C	8034561
Carbazole	ND		mg/kg dry	0 192	0 388	1	03/30/08 15:25	SW846 8270C	8034561
-Chloro-3-methylphenoi	ND		mg/kg dry	0 116	0 388	3	03/30/08 15:25	SW846 8270C	8034561
-Chloroaniline	ND		mg/kg dry	0 336	0 388	ì	03/30/08 15:25	SW846 8270C	8034561
is(2-chloroethoxy)methane	ND		mg/kg dry	0 129	0 388	1	03/30/08 15:25	SW846 8270C	8034561
is(2-chloroethyl)ether	ND		mg/kg dry	0 157	0 388	1	03/30/08 15:25	SW846 8279C	8034561
tis(2-chioroisopropyl)ether	ND		mg/kg dry	0 119	0 388	1	03/30/08 15-25	SW846 8270C	8034561
-Chloronaphthalene	ND		mg/kg dry	0 0792	0.388	1	03/30/08 15:25	SW846 8270C	8034561
-Chlorophenol	ND		mg/kg dry	0 127	0 388	1	03/30/08 15:25	SW846 8270C	8034561
-Chiorophenyi phenyi ether	ИD		mg/kg dry	0 129	0 388	3	03/30/08 15:25	SW846 8270C	8034561
hrysene	ND		mg/kg dry	0 0454	0.388	1	03/30/08 15:25	SW846 8270C	8034561
ibenz (a.h) anthracene	ND 🎳	e2	mg/kg dry	0.0361	0 388	1	03/30/08 15:25	SW846 8270C	8034561
ibenzofiran	0 114		mg/kg dry	0 104	0 388	î	03/30/08 15:25	SW846 8270C	8034561
i-n-butyl phthalate	ND 🗘	7Kan-	mg/kg dry	0 100	0 388	1	03/30/08 15:25	SW846 8270C	8034561
4-Dichlorobenzene	ND		mg/kg dry	0 134	0 388		03/30/08 15:25	SW846 8270C	8034561
2-Dichlorobenzene	DM		mg/kg dry	0 102	0.388		03/30/08 15:25	SW846 8270C	8034561
3-Dichlorobenzene	ND		mg/kg dry	0 0931	0 388		03/30/08 15:25	SW846 8270C	8034561
3-Dichlorobenzidine	ND		mg/kg dry	0 314	0 776		03/30/08 15:25	SW846 8270C	8034561
4-Dichlorophenol	ND		mg/kg dry	0 101	0 388	1	03/30/08 15:25	SW846 8270C	8034561
ethyl phthalate	ND		mg/kg dry	0 0582	0 388			SW846 8270C	8034561
1-Dimethylphenol	ND		mg/kg dry	0 327	0.388			SW846 8270C	8034561
methyl phehalate	ND		mg/kg dry	0 102	0 388			SW846 8270C	8034561
Dinitro-2-methylphenol	ND		mg/kg dry	0 106	0 970			SW846 8270C	8034561
I-Dinitrophenol	ND		mg/kg dry	0 157	0 970			SW846 8270C	8034561
Dinitrotoluene	ND		mg/kg dry	0 129	0 388			SW846 8270C	8034561
-Dinitrotoluene	ND 🎺		mg/kg dry	0 102	0 388			SW846 8270C	8034561





2950 Foster Creighton Road Nashville TN 37204 "800-765-0990 " Fax 615-725-3464

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth, GA 30096

Attn Jessica Vickers

Work Order;

NRC2505

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

03/29/08 06:45

Analyte	Result	Flag	Units	MDL	MRI.	Dilutio Facto		e Method	Batch
Sample ID: NRC2505-02 (SF-02 - :	Soil) - cont. S	Sample	1: 03/28/08	16:02					*** ******
Semivolatile Organic Compounds by E	PA Method 82	270C - co	ont.						
Di-n-octyl phthalate	ND U		mg/kg dry	0 154	0 388				
Bis(2-ethylhexyl)phthalate	3 89	,	mg/kg dry	0 129	0 388	i I	03/30/08 15:25	· · · · · · · · · · · · · · · · · · ·	8034561
Fluoranthene	0.0477	0	mg/kg dry	0 0396	0 388	j I	03/30/08 15:25		8034561
Fluorene	ND 🌙	N. Landon	mg/kg dry	0 0454	0 388	1	03/30/08 15:25	SW846 8270C	8034561
Hexachlorobenzene	ND 1		mg/kg dry	0 0966	0 388	1	03/30/08 15:25	SW846 8270C	8034561
Hexachlorobutadiene	ND		mg/kg dry	0 126	0 388	1	03/30/08 15:25	SW846 8270C	8034561
Hexachlorocyclopentadiene	ND		mg/kg dry	0 129	0 388	1	03/30/08 15:25	SW846 8270C	8034561
Hexachloroethane	ND		mg/kg dry	0 122	0 388	ì	03/30/08 15:25 03/30/08 15:25	SW846 8270C	8034561
Indeno (1.2,3-cd) pyrene	ND		mg/kg dry	0.0361	0 388	1	03/30/08 15:25	SW846 8270C SW846 8270C	8034561
Isophorone	ND		mg/kg dry	0 116	0 388	,			8034561
2-Methylnaphthalene	ND		mg/kg dry	0 0384	0 388	1	03/30/08 15:25 03/30/08 15:25	SW846 8270C	8034561
2-Methylphenol	ND V		mg/kg dry	0 115	0 388	1		SW846 8270C	8034561
3/4-Methylphenol	ND US	j j	mg/kg dry	0 169	0 388	1	03/30/08 15:25	SW846 8270C	8034561
Naphthalene	ND U		mg/kg dry	0.0477	0.388	1	03/30/08 15:25	SW846 8270C	8034561
3-Nitroaniline	ND N		mg/kg dry	0 128	0 970	1	03/30/08 15:25	SW846 8270C	8034561
2-Nitroaniline	ND I		mg/kg dry	0 129	0 970	1	03/30/08 15:25	SW846 8270C	8034561
4-Nitropnitine	ND		mg/kg dry	0 320	0 970	1	03/30/08 15:25	SW846 8270C	8034561
Nitrobenzene	ND		mg/kg dry	0 123	0 388	1	03/30/08 15:25	SW846 8270C	8034561
4-Nitrophenol	ND		mg/kg dry	0 321	0 970	1	03/30/08 15:25	SW846 8270C	8034561
2-Nitrophenol	ND		mg/kg dry	0 229	0 388	1	03/30/08 15:25	SW846 8270C	8034561
N-Nitrosodiphenylamine	ND 🗸		mg/kg dry	0 127	0 388	,	03/30/08 15:25	SW846 8270C	8034561
N-Nitrosodi-n-propylamine	DU ON	•	mg/kg dry	0 142	0.388	i	03/30/08 15:25 03/30/08 15:25	SW846 8270C	8034561
Pentachlorophenol	ND U		mg/kg dry	0 0861	0 970	1	03/30/08 15:25	SW846 8270C SW846 8270C	8034561
Phonanthrene	0.167	0	mg/kg dry	0 0396	0 388	,	03/30/08 15:25	SW846 8270C	8034561
Phenol	ND U	Vegp.	mg/kg dry	0 0803	0 388	1	03/30/08 15:25	SW846 8270C	8034561
Pyrene	0.0504	<b>(</b> )	mg/kg dry	0 0477	0 388	i	03/30/08 15:25	SW846 8270C	8034561 8034561
1,2,4-Trichlorobenzene	ND $oldsymbol{\mathcal{U}}$	and a	mg/kg dry	0 129	0 388		03/30/08 15:25	SW846 8270C	
l-Methylnaphthalene	ND UJ	•	mg/kg dry	0 0372	0.388		03/30/08 15:25	SW846 8270C	8034561 8034561
2.4.6-Trichlorophenol	ND 🗸		mg/kg dry	0 101	0 388	1	03/30/08 15:25	SW846 8270C	8034561
4 5-Trichlorophenol	ND 🔾		mg/kg dry	0 0 792	0.970	1	03/30/08 15:25	SW846 8270C	8034561
urr: Terphenyl-d14 (26-128%)	65 %					_			8034561
urr 246-Tribromophenol (20-132%)	74 %					1	03/30/08 15 25	SW846 8270C	
urr Phenol-d5 (23-11.3%)	56%					ł	03/30/08 15 25	SW846 8270C	803 <b>456</b> 1
urr 2-Fluorobiphenyl (19-109%)						1	03/30/08 15.25	SW846 8270C	8034561
· · · · · · · · · · · · · · · · · · ·	60 %					1	03/30/08 15 25	SW846 8270C	8034561
urr 2-Fluorophenol (19-105%)	58 %					1	03/30/08 15 25	SW846 8270C	8034561
urr Nitrobenzene-d5 (22-104%)	52 %						03/30/08 15 25	SW846 8270C	8034561
Extractable Petroleum Hydrocarbons						•			
xiractable Petroleum Hydrocarbons (EPH)	4460			440	179				
or a-Terphenyl (50-150%)	4400	23	mg/kg dry	449	463	100	04/02/08 18:03	TDHE	8034655
or o respective (see 1.20.20)	•	253*	occurrie			100	04/02/08 18:03	TDHE	8034655
urgeable Petroleum Hydrocarbons									
RO (C6-C10) IN	1.65	<b>(7)</b>	mg/kg dry	0 473	4 73	50	04/02/08 20:48	TN GRO TDEC	0040047
rr. a a a-Trifluorotoluene (52-145%)	73 %	Constitution							8040247
, ,	/0					50 1	4/02/08 30 48	IN GRO TOEC	8040247





2950 Foster Creighton Road Nashville TN 37204 " 800-765-0980 " Fex 615-726-3404

Client Tehra Tech EMI (7797)

Duloth, GA 30096 Jessica Vickers Atm

Work Order: 1955 Evergreen Blvd., Building 200. Suite 300 Project Name:

Project Number:

NRC2505

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Received:

03/29/08 06:45

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Factor		Method	Batc
Sample ID: NRC2505-03 (S General Chemistry Parameters	F-02 Dup - Soil) Sa	mpled:	03/28/08 16	:02	V - T + T T T T T T T T T T T T T T T T T	********	*************	· 5 · 1 * 1 * 5 * 6 4 \$ 4 \$ 2 \$ 2	9 - 7 - 11 - 1
% Dry Solids	81 4		%	0 500	0.500	1	04/03/08 09-49	CHI 846	0040314
Total Metals by EPA Method 6	010B				0 000	•	04/03/08 09-49	SW-846	8040210
Aluminum	18200		mg/kg dry	661	12 0	i	04104100 14 04	PHIOAC COIDS	250.166
Antimony	ND U	)	mg/kg dry	1 68	12.0	1	04/04/08 14:21	SW846 6010B	8034669
Arsenic	2.16		mg/kg dry	108	1 20	1	04/04/08 14:21	SW846 6010B	8034669
Barium	80.7		mg/kg dry	0 601	2 40	1	04/04/08 14:21 04/04/08 14:21	SW846 6010B	8034669
Beryllium	0.385	#IX	mg/kg dry	0 361	1 20	1		SW846 6010B	8034669
Cadmium	1.06		mg/kg dry	0 240	1 20	ī	04/04/08 14:21	SW846 6010B	8034669
Calcium	507	1	mg/kg dry	361	120	ī	04/04/08 14.21	SW846 6010B	8034669
Chromium	18 I J		mg/kg dry	0 481	1 20	1	04/04/08 14:21	SW846 6010B	8034669
Cobalt	3.68		mg/kg dry	0 962	1 20	1	04/04/08 14:21	SW846 6010B	8034669
Copper	4.50			0 841	2 40		04/04/08 14:21	SW846 6010B	8034669
ron	12700		mg/kg dry	10.2	12.0	1	04/04/08 14:21	SW846 6010B	8034669
cad	11.5		mg/kg dry	0 601		1	04/04/08 14 21	SW846 6010B	8034669
Magnesium	1150		mg/kg dry		1 20	1	04/04/08 14.21	SW846 6010B	8034669
Aanganese	186		mg/kg dry	5 4 1	120	1	04/04/08 14:21	SW846 6010B	8034669
vickel	6.25		mg/kg dry	0 361	1 20	1	04/04/08 14:21	SW846 6010B	8034669
otassium	1770		mg/kg dry	108.0	! 20	ŧ	04/04/08 14:21	SW846 6010B	8034569
clenium	3.31		mg∕kg dry	36 1	120	1	04/04/08 14:21	SW846 6010B	8034669
íl ver			mg/kg dry	1 32	2 40	ł	04/04/08 14:21	SW846 6010B	8034669
odium	ND U	والمستنو	mg/kg dry	0 601	1 20	ŀ	04/04/08 14 21	SW846 6010B	8034669
hallium	131	_(_)	mg/kg dry	120	240	1	04/04/08 14:21	SW846 6010B	8034669
	ND ()		mg/kg dry	2 28	2 40		04/04/08 14:21	SW846 6010B	8034669
anadium	32.8		mg/kg dry	1 32	120	į	04/04/08 14:21	SW846 6010B	8034669
ine	35 3		mg/kg dry	3 97	120	1	04/04/08 14:21	SW846 6010B	8034669
Mercury by EPA Methods 7470	4/7471A	-904							
descury	0.0684	0	mg/kg dry	0 0355	0 118	1	04/04/08 15:02	SW846 7471A	8040053
olatile Organic Compounds by									
celone	nd R	KL)	mg/kg dry	1 43	2 86	50	03/31/08 16:08	SW846 8260B	8034828
enzene	ND $oldsymbol{v}$	Ŕij	mg/kg dry	0 0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
romobenzene	ND $oldsymbol{arphi}$	RĽL	mg/kg dry	0 0384	0.115	50	03/31/08 16:08	SW846 8260B	8034828
romochloromethane	ND 🕖	RLI	mg/kg dry	0 0384	0.115		03/31/08 16:08	SW846 8260B	8034828
romodichloromethane	ND 🜙	R#1	mg/kg dry	0 0384	0 115		03/31/08 16-08	SW846 8260B	8034828
omoform	ND 🗸	KL1	mg/kg dry	0 0304	0 115		03/31/08 16:08	SW846 8260B	8034828
omomethane	LU DN	Ba l	mg/kg dry	0.0900	0 115		03/31/08 16:08	SW846 8260B	8034828
Butanone	U-ND	- RP	mg/kg dry	0 286	2 86		03/31/08 16:08	SW846 8260B	8034828
c-Butylbenzene	ND U	Ŕ∎ĭ	mg/kg dry	0 0384	0 115		03/31/08 16:08	SW846 8260B	
Butylhenzene	ND	REE	mg/kg dry	0 0384	0 115				8034828
t-Butylbenzene	ND	RICI	mg/kg dry	0 0384	0 115			SW846 8260B	8034828
rbon disulfide	ND	RU	ing/kg dry	0 0384	0 286			SW846 8260B	8034828
rbon Ictrachleride	ND	RL1	ing/kg dry	0 0384	0 115			SW846 8260B	8034828
Jorobenzene	ND	RE-b	mg/kg dry	0 0384	0 115			SW846 8260B	8034828
dorodibromomethane	ND	REI	mg/kg dry	0 0384	0115			SW846 B260B	8034828
iloroethane	ND V	RIA						SW846 8260B	8034828
noroethane	ND W	RIN	mg/kg dry	0 0384	0 286	50	3/31/08 16:08	SW846 8260B	80348





2960 Foster Creighton Road Nashville TN 37204 " 800-785-9980 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd Building 200. Suite 300

Duluth, GA 30096 Attn Jessica Vickers

Duluth, GA 30096

Work Order: NRC2505

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

03/29/08 06:45

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Facto		Method	Batch
Sample ID: NRC2505-03 (SF-	02 Dup - Soin -	cont.Sa	mpled: 03/2	8/08 16-02	************	****	***********	******	
Volatile Organic Compounds by E	PA Method 8260	B - conf		D100 X0102					
Chloroform	ND L	<b>b</b>		0.0204					
Chloromethane		RIA Kiji	mg/kg dry		0 115	50	03/31/08 16:08	SW846 8260B	8034828
2-Chlorotoluene	ND	RI.	mg/kg dry	0.0504	0 115	50	03/31/08 16:08	SW846 8260B	8034828
4-Chlorotoiuene	GN	RI I	mg/kg dry	0.0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
1.2-Dibromo-3-chloropropane	ND43		mg/kg dry	0.0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
1,2-Dibromoethane (EDB)	ND I	£L1 £L1	mg/kg dry	0 0573	0 286	50	03/31/08 16:08	SW846 8260B	8034828
Dibromomethane	ND D	RC I	mg/kg dry	0.0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
1 4-Dichiorobenzene	סא	Rb1	mg/kg dry	0 0309	0 115	50	03/31/08 16:08	SW846 8260B	8034828
1.3-Dichlorobenzenc	ND	BQT I	mg/kg dry	0 0367	0 1 1 5	50	03/31/08 16:08	SW846 8260B	8034828
1.2-Dichlorobenzene	ND		mg/kg dry	0 0304	0 115	50	03/31/08 16:08	SW846 8260B	8034828
Dichlorodifluoromethane		Ř1.1 Ž—RLI	mg/kg dry	0 0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
1.1-Dichloroethane	- H		mg/kg dry	0 0533	0 115	50	03/31/08 16.08	SW846 8260B	8034828
1,2-Dichloroethano	ND	RL I	mg/kg dry	0 0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
cis-1,2-Dichloroethono	ND	R451	mg/kg dry	0 0458	0 115	50	03/31/08 16:08	SW846 8260B	8034828
1,1-Dichloroethene	ND	RI	mg/kg dry	0 0384	0115	50	03/31/08 16:08	SW846 8260B	8034828
trans-1,2-Dichloroethene	ND	R∳l	mg/kg dry	0 0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
• • • • • • • • • • • • • • • • • • • •	ND	RI,1	mg∕kg dry	0 0384	0 115	50	03/31/08 16.08	SW846 8260B	8034828
L3-Dichloropropage	ND	RZ1	mg/kg dry	0 0384	0 115	50	03/31/08 16.08	SW846 8260B	8034828
1,2-Dichloropropane	ND	RÌ)	mg/kg dry	0 0384	0115	50	03/31/08 16.08	SW846 8260B	8034828
2,2-Dichloropropage	ND	RL	mg/kg dry	0 0241	0 115	50	03/31/08 16:08	SW846 8260B	8034828
cis-1 3-Dichioropropene	ND	RI I	mg/kg dry	0 0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
trans-1.3-Dichloropropene	ND	RI 1	mg/kg dry	0 0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
11-Dichloropropene	DM	PL 1	mg/kg dry	0 0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
Ethylbenzene	ND	Ŕij	mg/kg dry	0 0384	0115	50	03/31/08 16:08	SW846 8260B	8034828
Hexachlorobutadiene	ND [	R{(i	mg/kg dry	0 0361	0 286	50	03/31/08 [6:08	SW846 8260B	8034828
2-Hexanone	ND WE		mg/kg dry	0 233	2 86	50	03/31/08 16:08	SW846 8260B	8034828
Isopropyiberizene	ND	КЬI	mg/kg dry	0 0384	0 115	50	03/31/08 16:08	SW846 8260B	8034828
p-isopropyltoluene	ND	R[i]	mg/kg dry	0 0384	0115	50	03/31/08 16.08	SW846 8260B	8034828
Methyl tert-Butyl Ether	ND	RJP1	mg/kg dry	0 0384	0.115	50	03/31/08 16.08	SW846 8260B	8034828
Methylene Chloride	ND	Ri, I	mg/kg dry	0 199	0 573	50	03/31/08 16:08	SW846 8260B	8034828
4-Methyl-2-pentanone	ND	PL 1	mg/kg dry	0 244	2 86		03/31/08 16:08	SW846 8260B	8034828
Naphthalene	ND	ŘŊt	mg/kg dry	0 0865	0 286		03/31/08 16:08	SW846 8260B	8034828
n-Propylbenzene	ND	RL 1	mg/kg dry	0 0304	0 115		03/31/08 16:08	SW846 8260B	8034828
Styrene	ND	RIN	mg/kg dry	0 0384	0 115		03/31/08 16:08	SW846 8260B	8034828
1.1,1,2-Tetrachloroethane	ND	RLJ	mg/kg dry	0 0286	0 115		03/31/08 16:08	SW846 8260B	8034828
1.1,2.2-Tetrachloroethane	ND	Ŗď l	mg/kg dry	0 0384	0 115		03/31/08 16:08	SW846 8260B	8034828
Tetrachlorocthene	ND	RE	mg/kg dry	0 0384	0 115		80:61 80\1E\E0	SW846 8260B	8034828
Toluene	ИD	R	mg/kg dry	0 0384	0 1 1 5		03/31/08 16:08	SW846 8260B	8034828
1,2,3-Trichlorobenzene	ND	RI.	mg/kg dry	0 0378	0 115		03/31/08 16:08	SW846 8260B	8034828
1 2,4-Trichlorobenzene	ND	EL.	mg/kg dry	0 0372	0 115		33/31/08 16:08	SW846 8260B	8034828
1.12-Trichloroethane	ND	R/	mg/kg dry	0.0584	0 286			SW846 8260B	8034828
I.1.1-Trichloroethane	מא	RĎΙ	mg/kg dry	0 0384	0 115			SW846 8260B	8034828
frichloroethene	ND I	KD)	mg/kg dry	0.0160	0 115			SW846 8260B	
l richlorofluoromethane	ND 🗳	Kty	mg/kg dry	0 0384	0 115				8034828
2.3-Trichloropropane	ND US	R()	mg/kg dry	0.0315	0 115			SW846 8260B SW846 8260B	8034828
35-I rimethylbenzene	ND U	R. H	mg/kg dry	0 0384	0 115	,			8034828
	· <b>49</b>		முக்கு யற	4 V2VT	V 112	ψtr {	13/31/08 16:08	SW846 8260B	8034828





2960 Foster Creighton Road Nashville. TN 37204 " 888-765-6980 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd., Building 200, Suite 300

Duluth, GA 30096

Attn Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER

Project Number: Received: Oliver Springs Oil Well ER 03/29/08 06:45

	<b>.</b>		** **			Dilutio	•		***************************************
Analyte	Result	Flag	Units	MDL	MRL	Factor	Date/Time	Method	Batch
Sample ID: NRC2505-03 (SF-02	Dup - Soil) - c	ont. Sar	npled: 03/28	8/08 16:02					
Volatile Organic Compounds by EPA	Method 8260B	- cont.							
1,2 4-Trimethylbenzene	ND 🕽		mg/kg dry	0 0728	0 115	50	03/31/08 16.08	SW846 8260B	0501000
Vinyl chloride	ND	ŘI)	mg/kg dry	0.0407	0115	50	03/31/08 16.08	SW846 8260B	8034828
Xylenes total	ND 🌡	RIA	mg/kg dry	0 0986	0 286	50			8034828
Surr 1 2-Dichloroethane-d4 (41-150%)	109 %	4	mg ng stj	0.000	0 200		03/31/08 16.08	SW846 8260B	8034828
Surr Dibromofluoromethane (55-139%)	107 %					. 50	03/31/08 16 08	SW846 8260B	8034828
Surr Toluene-d8 (57-148%)	97 %					50	03/31/08 16 08	SW846 8260B	8034828
Surr 4-Bromofluorobenzene (\$8-150%)	90 %					50	03/31/08 16 08	SW846 8260B	8034828
Semivolatile Organic Compounds by		700				.50	03/31/08 16 08	SW846 8260B	8034828
		:/0C							
Accompliance	ND <b>U</b>		mg/kg dry	0 0372	0 400	I	03/30/08 15:51	SW846 8270C	8034561
Acenaphthylene	ND		mg∕kg dry	0 0384	0 400	ŧ	03/30/08 15:51	SW846 8270C	8034561
Anthracene	ND		mg/kg dry	0 0396	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Benzo (a) antivaceno	ND		mg/kg dry	0 0456	0 400	Į	03/30/08 15:51	SW845 8270C	8034561
Benzo (a) pyrene	ЯD		mg∕kg dry	0 0348	0 400	1	03/30/08 [5:51	SW846 8270C	8034561
Benze (b) fluoranthene	ОN		mg/kg dry	0 0384	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Benzo (g.h,i) perylene	סא		mg∕kg dry	0 0348	0 400	l	03/30/08 15:51	SW846 8270C	8034561
Benzo (k) fluoranthene	ND		mg/kg dry	0 0348	0 400	l	03/30/08 15:51	SW846 8270C	8034561
4-Bromophonyl phenyl ether	ΝD		mg/kg dry	0 133	0 400	1	03/30/08 [5:51	SW846 8270C	8034561
Butyi benzyi phthalate	ND		mg/kg dry	0 107	0 400	į	03/30/08 15 51	SW846 8270C	8034561
Carbaxole	ND		mg/kg dry	0 198	0 400	1	03/30/08 15:51	SW846 8270C	8034561
4-Chloro-3-methylphenol	ДИ		mg/kg dry	0 120	0 400	1	03/30/08 15:51	SW846 8270C	8034561
4-Chloroaniline	ON		mg/kg dry	0 347	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Bis(2-chloroethoxy)methane	ND		mg/kg dry	0 133	0 400	1	03/30/08 15:51	SW846 82:70C	8034561
Bis(2-chloroethy1)ether	ND		mg/kg dry	0 162	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Bis(2-chloroisopropyl)ether	MD 🚪		mg/kg dry	0 122	0 400	1	03/30/08 15:51	SW846 82:70C	8034561
2-Chloronaphthalene	ND P		mg/kg dry	0.0817	0.400	- 1	03/30/08 15:51	SW846 8270C	8034561
2-Chlorophenol	ND .		mg/kg dry	0.131	0 400	1	03/30/08 15:51	SW846 8270C	8034561
4-Chlorophenyl phenyl ether	ND ₩	AND .	mg∕kg dry	0 133	0 400	3	03/30/08 15:51	SW846 8270C	8034561
Chrysone	0.0612	()	mg/kg dry	0 0468	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Dibonz (a h) anthracens	йD 🐧		mg/kg dry	0 0372	0 400	i	03/30/08 15:51	SW846 8270C	8034561
Dibenzofuran	ND (		mg/kg dry	0 107	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Di-n-butyl phthalate	ND		mg/kg dry	0 103	0 400	ł	03/30/08 15:51	SW846 8270C	8034561
1.4-Dichlorobenzene	ND		mg/kg dry	0 138	0 400	1	03/30/08 15:51	SW846 8270C	8034561
1.2-Dichlorobenzene	CIN		mg/kg đry	0 106	0 400	1	03/30/08 15:51	SW846 8270C	8034561
1,3-Dichlorobenzene	ND I		mg/kg dry	0 0961	0 400	1	03/30/08 15:51	SW846 8270C	8034561
3 3-Dichlerobenzidine	ND		mg/kg dry	0 324	0 801	1	03/30/08 15;51	SW846 8270C	8034561
2 4-Dichlorophenol	ND		mg/kg dry	0 104	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Diethyl phthalate	ND		mg/kg dry	0 0600	0 400	i	03/30/08 15:51	SW846 8270C	8034561
2.4-Dimethylphenol	ND		mg/kg dry	0 337	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Dimethyl phthalate	ND		mg/kg dry	0 106	0 400	ł	03/30/08 15:51	SW846 8270C	8034561
4.6-Dinitro-2-methylphenol	ND		mg/kg dry	0 109	1 00	1	03/30/08 15:51	SW846 8270C	8034561
2.4-Dinitrophenol	ИD		mg/kg dry	0 162	1 00 1	1	03/30/08 15:51	SW846 8270C	8034561
2,6-Dinitrotaluena	ND .		mg/kg dry	0 133	0 400	1	03/30/08 15:51	SW846 8270C	8034561
2 4-Dinitrotoluene	ND 🕷		mg/kg dry	0 106	0 400	1	03/30/08 15:51	SW846 8270C	8034561
	. description	and the same							





2960 Foster Creighton Road Nashville "TN 37204" 800-755-0980 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Attn

Duluth GA 30096 Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER

Project Number: Received:

Oliver Springs Oil Well ER 03/29/08 06:45

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Facto		Method	Batci
Sample ID: NRC2505-03 (SF-02 D	up - Soil) - c	ont. Sar	npled: 03/2	8/08 16:02		* * * * * 1 * * * * 1 *	**********	* 1911	
Semivolatile Organic Compounds by E									
Di-n-octyl phthalate	ND L			0 159	0 400				
Bis(2-cthylhexyl)phthalate	5.15	0	mg/kg dry	0 267	0 800	1	03/30/08 15:51	SW846 8270C	8034561
Fluoranthene	0.0608	0	mg/kg dry	0 0408	0 400	2 I	03/30/08 20:09	SW846 8270C	8034561
Fluorene	ND L		mg/kg dry mg/kg dry	0 0468	0 400	i i	03/30/08 15:51	SW846 8270C	8034561
Hexachlorobenzene	ND I		mg/kg dry	0 0997	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Hexachlorobutadiene	ND			0 130	0 400	Į.	03/30/08 15:51	SW846 8270C	8034561
Hexachlorocyclopentadiene	ND		mg/kg dry mg/kg dry	0 133	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Hexachloroethene	ND		mg/kg dry	0 126	0 400	i	03/30/08 15:51	SW846 8270C	8034561
Indeno (1.2 3-cd) pyrene	ND		mg/kg dry	0 0372	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Isophorone	ND 🗸		mg/kg dry	0 120	0 400	1	03/30/08 15:51	SW846 8270C	8034561
2-Methylnaphthalene	0.122	$\omega$	mg/kg dry	0 0396	0 400	1	03/30/08 15:51	SW846 8270C	8034561
2-Methylphenol	ND U	4774	mg/kg dry	0119	0 400	· •	03/30/08 15:51	SW846 8270C	8034561
3/4-Methylphenol	ND UI		mg/kg dry	0 174	0 400	1	03/30/08 15:51	SW846 8270C	8034561
Naphthalene	ND )		mg/kg dry	0 0492	0 400	1	03/30/08 15:51	SW846 8270C	8034561
3-Nitroaniline	ND I		mg/kg dry	0 132	1 00	i	03/30/08 15:51	SW846 8270C SW846 8270C	8034561
2-Nitroaniline	מא 📗		mg/kg dry	0 133	1 00	1	03/30/08 15:51 03/30/08 15:51	SW846 8270C	8034561
4-Nitroaniline	ND		mg/kg dry	0 330	1 00	1	03/30/08 15:51	SW846 8270C	8034561 8034561
Nitrobenzene	ND		mg/kg dry	0 127	0 400		03/30/08 15:51	SW846 8270C	8034561
4-Nitrophenol	ND		mg/kg dry	0 33 1	1.00	i I	03/30/08 15:51	SW846 8270C	8034561
2-Nitrophenol	ND		mg/kg dry	0 237	0 400	i	03/30/08 15:51	SW846 8270C	8034561
N-Nitrosodiphenylamine	ND 🎶		mg/kg dry	0 131	0 400	i	03/30/08 15:51	SW846 8270C	8034561
N-Nitrosodi-n-propylamine	ND LAS	•	mg/kg dry	0 147	0 400	i	03/30/08 15:51	SW846 8270C	8034561
Pentachlorophenol	ND 🗸		mg/kg dry	0 0889	1 00	1	03/30/08 15:51	SW846 8270C	8034561
Phenanthrene	0.220	O	mg/kg dry	0 0408	0 400		03/30/08 15:51	SW846 8270C	8034561
Phenol	ND U		mg/kg dry	0 0829	0 400	i	03/30/08 15:51	SW846 8270C	8034561
Pyrene	0 9676	(1)	mg/kg dry	0 0492	0 400	Ī	03/30/08 15:51	SW846 8270C	8034561
1.2.4-Trichlorobenzene	ND U	San P	mg/kg dry	0 133	0 400	1	03/30/08 15:51	SW846 8270C	8034561
i-Methylnaphthalene	ND (L)	•	mg/kg dry	0 0384	0 400	ì	03/30/08 15:51	SW846 8270C	8034561
2.4.6-Trichlorophenol	ND 🗸		mg/kg dry	0 104	0 400	I	03/30/08 15:51	SW846 8270C	8034561
2.4.5-Trichlorophenol	ом $oldsymbol{oldsymbol{U}}$		mg/kg dry	0.0817	1 00	1	03/30/08 (5:51	SW846 8270C	8034561
urr Terphenyl-d14 (26-128%)	62 %					1	03/30/08 15 51	SW846 8270C	8034561
urr 2 4 6-Tribromophenol (20-132%)	68 %								8034561
urr Phenol-d5 (23-113%)	45 %						03/30/08 15 51	SW846 8270C	
urr 2-Fluorobiphenyl (19-109%)					•	I	03/30/08 15 51	SW846 8270C	8034561
urr 2-Fluorophenol (19-105%)	58 %					1	03/30/08 15 51	SW846 8270C	8034561
urr: Nitrobenzene-d5 (22-104%)	44 %					1	03/30/08 15 51	SW846 8270C	8034561
ar macoenzene-us (22-111470)	45 %					1	03/30/08 15.51	SW846 8270C	8034561
Extractable Petroleum Hydrocarbons						-			
xtractable Petroleum Hydrocarbons (EPH)	4940		mg/kg dry	462	476	100	04/02/08 18:24	TDHE	8034655
ur o-Terphenyl (50-150%)	*	23	C.					TDHE	8034655
Purgeable Petroleum Hydrocarbons						100	04/02/08 18 24	I LANG	30,75,73
RO (C6-C10) IN	3.59	0		V 400	4.00	4.0			
ur' a.a.a-Trifluorotoluene (52-145%)	3.39 75 %	45	mg/kg dry	0 488	4 88	50		IN GRO IDEC	8040247
	13%					50	74/02/08 21 20	TN GRO TDEC	8040247





2950 Foster Creighton Road Nashville TN 37204 " 800-765-0980 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth GA 30096

Attn Jessica Vickers

Work Order.

NRC2505

Project Name: Project Number: Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Received:

03/29/08 06:45

#### ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Factor		Method	Batcl
Sample ID: NRC2505-04 (VG-01	- Soil) Samp	led: 03/2	8/08 15:30				V	A Carrenawage,	
General Chemistry Parameters									
% Dry Solids	66.5		%	0 500	G 500	)	04/03/08 09:49	SW-846	8040210
Total Metals by EPA Method 6010B			,,		****	,	04/03/08 09.49	34-040	604021
Aluminum	4740		mg/kg dry	8 16	14.8	1	04/04/08 14:26	SW846 6010B	002466
Antimony	ND L	)	mg/kg dry	2 08	14.8	1	04/04/08 14:25	SW846 6010B	803466
Arsenic	ND (	)	mg/kg dry	1 33	1 48	i	04/04/08 14:26	SW846 6010B	803466
Barium	88.2		mg/kg dry	0.741	2 97	1	04/04/08 14:26	SW846 6010B	803466
Beryllium	ND L	}	mg/kg dry	0 445	1 48	1			803466
Cadmium	0.504	0	mg/kg dry	0 297	1 48	1	04/04/08 14:26	SW846 6010B	803466
Calcium	7410	Captill	mg/kg dry	4 45	14.8	1	04/04/08 14:26	SW846 6010B	8034669
Chromium	5 34		mg/kg dry	0 593	148	1	04/04/08 14:26	SW846 6010B	8034669
Cobalt	ND U			1 19	1 48	1	04/04/08 14:26	SW845 6010B	8034669
Copper	36.5		mg/kg dry	1 04	2.97	ì	04/04/08 14:26	SW846 6010B	8034669
Iron	3860		mg/kg dry	126	148	1	04/04/08 14:26	SW846 6010B	8034669
Lead	15.8		mg/kg dry	0.741		•	04/04/08 14:26	SW846 6010B	8034669
Magnesium	1000		mg/kg dry		1 48	1	04/04/08 14-26	SW846 6010B	8034669
Manganese	124		mg/kg dry	6 67	14 8	L	04/04/08 14:26	SW846 6010B	8034669
Nickel			mg/kg dry	0 445	1 48	ì	04/04/08 14:26	SW846 6010B	8034669
otassium	2.64		mg/kg dry	0.741	1.48	Ī	04/04/08 14:26	SW846 6010B	8034669
Selenium	2790		mg/kg dry	44.5	148	T.	04/04/08 14:26	SW846 6010B	80346 <del>6</del> 9
Silver	5.39		mg/kg dry	1 63	2 97	1	04/04/08 14:26	SW846 6010B	8034669
Sodium	ND U		mg/kg dry	0 741	1 48	1	04/04/08 14:26	SW846 6010B	8034669
Thallium	305	eva	mg/kg dry	148	297	1	04/04/08 14:26	SW846 6010B	8034669
namum /anadium	ND L	· April	mg/kg dry	2 82	297	ŧ	04/04/08 14:26	SW846 6010B	8034669
inc	7.86		mg/kg dry	1 63	14 8	1	04/04/08 14:26	SW846 6010B	8034669
	50.3		mg/kg dry	4 89	14 8	1	04/04/08 14:26	SW846 6010B	8034669
Mercury by EPA Methods 7470A/747		· .							
Mercury	0 106	O	mg/kg dry	0 0446	0 149	1	04/04/08 15:04	SW846 7471A	8040053
Volatile Organic Compounds by EPA		i							
cetane	nd• R	R#J	mg/kg dry	188	37 6	50	03/29/08 23:22	SW846 8260B	8034627
enzene	ND V	ŔŊi	mg/kg dry	0 504	1 50		03/29/08 23:22	SW846 8260B	8034627
romobenzene	ND 🗸	R[1	mg/kg dry	0 504	1.50		03/29/08 23:22	SW846 8260B	8034627
romochloromethane	ND UJ	I, KLI	mg/kg dry	0 504	1.50		03/29/08 23:22	5W846 8260B	8034627
romodichtoremethane	ND 🗸	શ્રી	mg/kg dry	0 504	1 50		03/29/08 23:22	SW846 8260B	8034627
romoform	ND 🗸	. Ri	mg/kg dry	0 398	1.50		03/29/08 23:22	SW846 8260B	8034627
romomethane	ND U		mg/kg dry	1 18	1 50		03/29/08 23:22	SW846 8260B	8034627
Butanone	U ND R		mg/kg dry	3 76	376		03/29/08 23:22	SW846 8260B	
c-Butylbenzene	1 42 3	R( 157)	mg/kg dry	0 504	1 50				8034627
Butylbenzene	2.74	The state of the s	mg/kg dry	0 504	1 50		03/29/08 23:22	SW846 8260B	8034627
rt-Butylbenzene	ND U	RAL 1	mg/kg dry	0 504	1 50		03/29/08 23:22	SW846 8260B	8034627
arbon disulfide	ND I	RI I	mg/kg dry	0 504	3 76		03/29/08 23:22	SW846 8260B	8034627
arbon Tetrachioride	ND	RJ/ i		0 504	150			SW846 8260B	8034627
			mg/kg dry					SW846 8260B	8034627
ilorobenzene	ND B	8.13	مسدام مربراكوروبور						
	ND ND	KL I RP I	mg/kg dry mg/kg dry	0 504 0 504	I 50 I 50	_		SW846 8260B SW846 8260B	8034627 8034627

06/04/08



2950 Foster Creighton Road Nashville TN 37204 " 800-765-0980 " Fax 615-726-\$404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd., Building 200, Suite 300

Duluth, GA 30096

Ann Jessica Vickers

Work Order,

NRC2505

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

03/29/08 06:45

ANA	VIII.	REPORT

Analyte	Result	Flag	Units	MDL	MRI	Dilutio Facto	<i>Q</i> ·····	Method	Batch
Sample ID: NRC2505-04 (VG	6-01 - Soil) - cont.	Sample	d: 03/28/08	15:30		,		* * * * * * * * * * * * * * * * * * * *	
Volatile Organic Compounds by	EPA Method 8260B	- cont							
Chloroform	ND I	Rist	man Arm dan	0 504	1.50				
Chloromethane	ND I	KI:	mg/kg dry	0 562	1.50	50	03/29/08 23:22	SW846 8260B	8034627
2-Chioroteluene	ND D	R4	mg/kg dry	0 504	1 50 I 50	50	03/29/08 23:22	SW846 8260B	8034627
4-Chlorotoluene	ОИ	RI/i	mg/kg dry	0 504	1.50	50	03/29/08 23:22	SW846 8260B	8034527
1,2-Dibromo-3-chloropropane	ND	Rity	mg/kg dry	0 752	3 76	50	03/29/08 23:22	SW846 8260B	8034627
1.2-Dibromoethane (EDB)	ND	BL 1	mg/kg dry mg/kg dry	0 504	1 50	50 50	03/29/08 23:22	SW846 8260B	8034627
Dibromomethane	ND	ŖĨŽ1	mg/kg dry	0 406	1 50	50 50	03/29/08 23:22	SW846 8260B	8034627
1,4-Dichlorobenzene	ND	R <sub>b</sub> 1	mg/kg dry	0 481	1 50	50	03/29/08 23:22	SW846 8260B	8034627
1,3-Dichlorobenzene	ND	RL1	mg/kg dry	0 398	1 50	50 50	03/29/08 23:22	SW846 8260B	8034627
1,2-Dichlorobenzene	ND	Rbi	mg/kg dry	0 504	1 50	50 50	03/29/08 23:22	SW846 8260B	8034627
Dichlorodifluoromethane	ND	BAT I	mg/kg dry	0 699	1 50	50	03/29/08 23:22	SW846 8260B	8034627
1,1-Dichloroethane	ND	RI/I	mg/kg dry	0.504	1 50	50	03/29/08 23-22	SW846 8260B	8034627
1,2-Dichloroethane	ND	Petal	mg/kg dry	0 602	1 50	50	03/29/08 23:22	SW846 8260B	8034627
cis-1,2-Dichiorocthene	ND	REI	mg/kg dry	0 504	1 50	50	03/29/08 23:22	SW846 8260B	8034627
1 1-Dichloroethene	ND	R()	mg/kg dry	0 504	1 50	50	03/29/08 23 22	SW846 8260B	8034627
trans-1,2-Dichloroethene	ND	RESI	mg/kg dry	0.504	150	50	03/29/08 23:22	SW846 8260B	8034627
1,3-Dichloropropane	ND	RZI	mg/kg dry	0 504	1 50	50 50	03/29/08 23·22 03/29/08 23·22	SW846 8260B SW846 8260B	8034627
1,2-Dichloropropanc	ND	RLA	mg/kg dry	0 504	1 50	50	03/29/08 23:22	SW846 8260B	8034627
2,2-Dichleroprepane	. מא	RL)	mg/kg dry	0316	1 50	50	03/29/08 23:22	SW846 8260B	8034627
cis-1,3-Dichloropropene	ND	RI/I	mg/kg dry	0 504	1 50	50	03/29/08 23:22	SW846 8260B	8034627
trans-1.3-Dichloropropene	ND	ky i	mg/kg dry	0 504	1 50	50	03/29/08 23:22	SW846 8260B	8034627
1,1-Dichloropropene	DN	R <b>4</b> i	mg/kg dry	0 504	1 50	50	03/29/08 23:22	SW846 8260B	8034627
Ethylbenzene	ND	RAC 1	mg/kg dry	0 504	1 50	50	03/29/08 23:22	SW846 8260B	8034627 8034627
Hexachlorobutadiene	ND	Ki i Biji	mg/kg dry	0 4 7 4	3 76	50	03/29/08 23:22	SW846 8260B	8034627 8034627
2-Ficxanone	ND	K41	mg/kg dry	3 06	376	50	03/29/08 23 22	SW846 8260B	8034627
Isopropylbenzene	ND ¥	RL1	mg/kg dry	0 504	1 50	50	03/29/08 23:22	SW846 8260B	
p-Isopropyltoluene	1.01 🕉 "	MAD)	mg/kg dry	0 504	1.50	50	03/29/08 23:22	SW846 8260B	8034627 8034627
Methyl tert-Butyl Ether	ND U	Ř()	mg/kg dry	0 504	1 50	50	03/29/08 23:22	SW846 8260B	8034627
Methylene Chloride	9 05	Éi	mg/kg dry	262.	7 52	50	03/29/08 23:22	SW846 8260B	8034627
4-Methyl-2-pentanone	ND 🔰	R. I	mg/kg dry	3 20	376	50	03/29/08 23:22	SW846 8260B	8034627
Naphthalene	6.96		mg/kg dry	1 14	3 76	50	03/29/08 23:22	SW846 8260B	8034627
n-Propylbenzene	1.44	Rety (3)	mg/kg dry	0 398	1 50	50	03/29/08 23:22	SW846 8260B	8034627
Styrene	ND U	क्स्पूर्व	mg/kg dry	0 504	1 50	50	03/29/08 23:22	SW846 8260B	8034627
1,1,12-Tetrachloroethane	ND I	R4 I	mg/kg dry	0 376	1 50	50	03/29/08 23:22	SW846 8260B	8034627
1, 1, 2, 2-Tetrachloroethane	ND	RL1	mg⁄kg dry	0 504	1.50		03/29/08 23:22	SW846 8260B	8034627
Tetrachloroethene	ND 🎶	Riyl	mg/kg dry	0 504	1.50			SW846 8260B	8034627
Toluene	0.925 3	DRJ 1	mg/kg dry	0 504	1 50		**	SW846 8260B	8034627
1,2,3-Irichlorobenzene	ND U	RLA	mg/kg dry	0 496	1 50			SW846 8260B	8034627
1.2,4-Trichlorobenzene	ND	RI <b>Z</b>	mg/kg dry	0 489	1 50			SW846 8260B	8034627
L.I.2-Trichlorocthane	ND	L, <b>[</b> []	mg/kg dry	0 767	3 76			SW846 8260B	8034627
1,1,1-Trichloroethane	ND	RI/I	mg/kg dry	0 504	1 50			SW846 8260B	8034627
Trichleroethene	ND	rtji	mg/kg dry	0 211	1 50			SW846 8260B	8034627
Trichlorofluoromethane	DИ	R(L)	mg/kg dry	0 504	1 50			SW846 8260B	8034627
1,2,3-Trichloropropane	ур 🎶	BJ 1	mg/kg dry	0414	1 50			SW846 8260B	8034627
1.3.5-Trimethylberizene	6.40	•	mg/kg dry	0 504	1 50			SW846 8260B	8034828





2960 Foster Creighton Road Nashville TN 37204 \* 800-765-0980 \* Fex 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd., Building 200., Suite 300

Duluth GA 30096

Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER

Project Number: Received.

Oliver Springs Oil Well ER 03/29/08 06,45

Analyte	Result	Flag	Units	MDL	MRI.	Dilutio Facto		e Method	Batch
Sample ID: NRC2505-04 (VG-01	- Soil) - cont.	Sampled	: 03/28/08	15:30	то то жова на израда.	* 1 * * a a a	· · · · · · · · · · · · · · · · · · ·	* * * * * = * * * * . # .	
Volatile Organic Compounds by EPA	Method 8260B	- cont							
1,2,4-Trimethylbenzene	16.0			0 955	1.60				
Vinyl chloride	D D	Ret <sup>e</sup>	mg/kg dry	0.534	1 50 1 50	50	03/31/08 17:35	SW846 8260B	8034828
Xylenes, total	9 29	, ,,,,,,	mg/kg dry mg/kg dry	1 29	3 76	50	03/29/08 23:22	SW846 8260B	8034627
Surr 1.2-Dichloroethane-d4 (41-150%)	103 %		mg/kg my	1 27	3 /6	50	03/31/08 17:35	SW846 8260B	8034828
Surr 1.2-Dichloroethane-d4 (41-150%)	112%					50	03/29/08 23 22	SW846 8260B	8034627
Surr Dibromofluoromethane (55-139%)						50	03/31/08 17 35	SW846 8260B	8034828
Surr Dibramofluoromeshane (\$\$-139%)	105 %					50	03/29/08 23 22	SW846 8260B	8034627
	108%					50	03/31/08 17 35	SW846 8260B	8034828
Sur Toluene-d8 (57-148%)	97 %					50	03/29/08 23 22	5W846 8260B	8034627
Surr Toluene-d8 (57-148%)	9.5 %					50	03/31/08 17 35	SW846 8260B	8034828
Surr 4-Bromofluarobenzene (58-150%)	95 %								
Surr 4-Bromafluorobenzene (58-150%)	98 %					50	03/29/08 23 22	SW846 8260B	8034627
Semivolatile Organic Compounds by E	202 56 45 100					50	03/31/08 17 35	SW846 8260B	8034828
Acenaphthene Acenaphthylene	ND U	(1)	mg⁄kg dry	1 20	129	1	03/30/08 16:17	SW846 8270C	8034561
Anthracene	9.56		mg/kg dry	1 24	129	1	03/30/08 16.17	SW846 8270C	8034561
Berzo (s) anthracene	2.60	W	mg/kg dry	1 28	12 9	1	03/30/08 16:17	SW846 8270C	8034561
Benzo (a) pyrene	ND V		mg/kg dry	i 48	129	ı	03/30/08 16:17	SW846 8270C	8034561
Benzo (b) fluoranthene	ND		mg/kg dry	1 13	129	1	03/30/08 16:17	SW846 8270C	8034561
Benzo (g.h.i) perylene	ND ND		mg/kg dry	1 24	129	1	03/30/08 16:17	SW846 8270C	8034561
Benzo (k) fluoranthene	ND		mg⁄kg dry	1 13	12 9	1	03/30/08 16:17	SW846 8270C	8034563
4-Bromophenyl phenyl ether	ND ND		mg/kg dry	1 13	12.9	1	03/30/08 16:17	SW846-8270C	8034561
Butyl benzyl phthainte	ND		mg/kg dry	4 31	12 9	Ĭ	03/30/08 16.17	SW846 8270C	8034561
Carbazole	ND I		mg/kg dry	3 46	12 9	1	03/30/08 16:17	SW846 8270C	8034561
4-Chloro-3-methylphenol	ND ND		ing/kg dry	541	129	1	03/30/08 16 17	SW846 8270C	8034561
4-Chloroaniline	ND		mg/kg dry	3 88	129	}	03/30/08 16:17	SW846 8270C	8034561
Bis(2-chloroethoxy)methane	ND		mg/kg dry	112	129	1	03/30/08 16:17	SW846 8270C	8034561
Bis(2-chloroethyl)ether	ND I		mg/kg dry	4 31 5 24	12.9	1	03/30/08 16:17	SW846 8270C	8034561
Bis(2-chloroisopropyl)ether	ND		mg/kg dry	3 96	12.9	1	03/30/08 16:17	SW846 8270C	8034561
2-Chloronaphthalene	ND		mg/kg dry	2 64	12 9 12 9	ì	03/30/08 16:17	SW846 8270C	8034561
2-Chlorophenol	ND		mg/kg dry mg/kg dry	4 23	129	1	03/30/08 16-17	SW846 8270C	8034561
4-Chlorophenyl phenyl ether	ND		mg/kg dry	431	129		03/30/08 16:17	SW846 8270C	8034561
Chrysene	ND		mg/kg dry	151	12.9		03/30/08 16:17	SW846 8270C	8034561
Dibenz (a.h) anthracene	ND		mg/kg dry	1 20	12.9		03/30/08 16:17	SW846 8270C	8034561
Dibenzofuran	ND		mg/kg dry	3 46	12 9		03/30/08 16:17	SW846 8270C	8034561
Di-n-butyl phthalate	ND		mg/kg dry	3 34	12 9	·	03/30/08 16:17	SW846 8270C	8034561
1,4-Dichlorobenzene	ND		mg/kg dry	4 46	12.9		03/30/08 16:17	SW846 8270C	8034561
1 2-Dichlorobenzene	DN		mg/kg dry	3 42	12.9		03/30/08 16:17	SW846 8270C	8034561
1 3-Diehlorobenzene	ND		ng/kg dry	3 11	12.9		03/30/08 16:1:7	SW846 8270C	8034561
3.3-Dichlorobenzidine	ND		ng/kg dry	10.5	25 9		03/30/08 16:17 03/30/08 16:17	SW846 8270C	8034561
2.4-Dichlorophenol	ND		ng/kg dry	3 38	129			SW846 8270C	8034561
Diethyl phthalate	ND g		ng/kg dry	1 94	129			SW846 8270C SW846 8270C	8034561
2.4-Dimethylphenol	ND		ng/kg dry	10 9	12 9				8034561
Dimethyl phthelate	ND 🗸		ng/kg dry	3 42	12.9			SW846 8270C	8034561
	•		~	***		, (	13/30/08 10:17	SW846 8270C	8034561





2960 Foster Creighton Road Nashville TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200 Suite 300

Duluth, GA 30096

Attn Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

03/29/08 06:45

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Facto	J	. Method	Batcl
Sample ID: NRC2505-04 (VG-01	- Soif) - cont.	Sampled:	03/28/08	15:30				**************	
Semivolatile Organic Compounds by	EPA Method 82	270C - cont	·						
4,6-Dinitro-2-methylphenol	ND ()			3 53	25.3				
2.4-Dinitrophenol	ND Y		mg/kg dry	5 24	32.3	1	03/30/08 16:17	SW846 8270C	803456
2.5-Dinitrotolucne	ND		mg/kg dry	431	32 3 12 9	1	03/30/08 16:17	SW846 8270C	803456
2.4-Dinitrotolucne	dи		mg/kg dry	3 42	129	1	03/30/08 16:17	SW846 8270C	8034561
Di-n-octyl phthalate	ND J		mg/kg dry	5 12	12 9	l	03/30/08 16:17	SW846 8270C	8034561
Bis(2-ethylhexyl)phthalate	6.51	(1)	mg/kg dry mg/kg dry	4 31	129	į,	03/30/08 16:17	SW846 8270C	8034561
Fluoranthene	ND U	Carried Street	mg/kg dry	1 32	129	1	03/30/08 16:17	SW846 8270C	8034561
Fluorene	ND I		mg/kg dry	1 51	12.9	1	03/30/08 16:17	SW846 8270C	8034561
Hexachlorobenzene	ND		mg/kg dry	3 22	12.9	1	03/30/08 16:17	SW846 8270C	8034561
Hexachlorobutaciene	ND		mg/kg dry	4 19	129	. 1	03/30/08 16:17	SW846 8270C	8034561
Hexachlorocyclopentadiene	ND		mg/kg dry	431	129		03/30/08 16:17	SW846 8270C	8034561
Hexachioroethane	ND			4 08	129	1	03/30/08 16:17	SW846 8270C	8034561
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	1 20	12 9	i	03/30/08 16:17	SW846 8270C	8034561
Isophorone	D QN		mg/kg dry mg/kg dry	3 88	12 9	I I	03/30/08 16:17	SW846 8270C	8034561
2-Methylnaphthalene	21.0		mg/kg dry	1 28	129		03/30/08 16:17	SW846 8270C	8034561
2-Methylphenol	ND U		mg/kg dry	3 84	12.9	1.	03/30/08 16:17	SW846 8270C	8034561
3/4-Methylphenol	ND US	<b>~</b>	mg/kg dry	5 63	12 9	1	03/30/08 16:17	SW846 8270C	8034561
Naphthalene	8.96	<b>(1)</b>	mg/kg dry	1 59	129	1	03/30/08 16:17	SW846 8270C	8034561
3-Nitroaniline	ND 1)	Name of the last	mg/kg dry	4 27	32 3	1	03/30/08 16:17	SW846 8270C	8034561
2-Nitroaniline	ND I		mg/kg dry	4 3 1	32 3	1	03/30/08 16:17	SW846 8270C	8034561
I-Nitroaniline	ND		mg/kg dry	10.7	32 3	j I	03/30/08 16:17	SW846 8270C	8034561
Nitrabenzene	ND		mg/kg dry	4 12	129		03/30/08 16:17	SW846 8270C	8034561
i-Nitrophenol	DN		mg/kg dry	107	32 3	1	03/30/08 16:17	SW846 8270C	8034561
-Nitrophenot	ND		mg/kg dry	7 65	12 9		03/30/08 16:17	SW846 8270C	8034561
N-Nitrosodiphenylamine	ND 🗸		mg/kg dry	4 23	12 9	1	03/30/08 16-17	SW846 8270C	803456)
V-Nitrosodi-n-propylamine	ND US		,	4.74	12.9	i I	03/30/08 16:17	SW846 8270C	8034561
entachlorophenoi	ND U		mg/kg dry mg/kg dry	2 87	32 3	i t	03/30/08 16:17	SW846 8270C	8034561
henanthrene	12.7	$\odot$		1 32	12 9		03/30/08 16:17	SW846 8270C	8034561
henol	ND 🔰		mg/kg dry mg/kg dry	2 68	12 9	t i	03/30/08 16:17	SW846 8270C	8034561
yrene	3.87	A seed	mg/kg dry	1 59	12 9	1	03/30/08 16:17	SW846 8270C	8034561
2.4-Trichtorobenzene	ND 💟	Or Co.	mg/kg dry	431	12.9	i I	03/30/08 16:17	SW846 8270C	8034561
-Methylnaphthalene	175		mg/kg dry	124	129	į.	03/30/08 16:17	SW846 8270C	8034561
4,6-Trichterophenol	ND Ü			3 38	12.9	i	03/30/08 16:17	SW846 8270C	8034561
4 5-Trichlorophenol	ND U		mg/kg dry mg/kg dry	2 64	32 3	, [	03/30/08 16:17	SW846 8270C	8034561
arr Terphenyl-dl 4 (26-128%)	77 %		MENKE UIT	2 04	.34.3		03/30/08 16:17	SW846 8270C	8034561
err 246-Tribromophenol (20-132%)						1	03/30/08 16 17	SW846 8270C	8034561
rr Phenol-d5 (23-113%)	77 %					1	03/30/08 16:17	SW846 8270C	8034561
· · ·	60 %					1	03/30/08 16 17	SW846 8270C	8034561
rr 2-Fluorobiphenyl (19-109%)	88 %					1	03/30/08 16 17	SW846 8270C	8034561
rr 2-Fluorophenol (19-105%)	67%					-	03/30/08 16 17	SW846 8270C	8034561
rr Nitrobensene-d5 (22-104%)	1.38 %	ZX Common	**			-	03/30/08 16 17	SW846 8270C	8034561
xtractable Petroleum Hydrocarbons				Ť		•		J. 414 04100	
stractable Petroleum Hydrocarbons (EPH)	717000 🏋	-	maka da.	10400	10700	100	04100100000	****	2024
rr o-Terphenyl (50-150%)	*	Z3-42	mg/kg dry	10400	10100		04/02/08 01:36	TDHE	8034655
4	•	Mary Walter	•			100	4/02/08 01.36	TDHE	8034655





2960 Foster Creighton Road Nashville TN 37204 \* 800-765-0980 \* Fax 615-725-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200. Suite 300

Duluth, GA 30096

Jessica Vickers Attn

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number. Received:

03/29/08 06:45

ANTA	TU	TITE	. *	REPORT	
A 1/1	LLE	111.2	11.	KE P C I K I	

Analyte	Resulf	Flag	Units	MDL	MRL	Dilutio Factor		Method	Batch
Sample ID: NRC2505-04 (VG-01	- Soil) - cont.	Sample	d: 03/28/08	15:30					
Purgeable Petroleum Hydrocarbons	,			10.00					
GRO (C6-C10) IN	608		m. A	6 02	50.0				
Surr a a a-Trifluorotolnene (52-145%)	75%		mg∕kg dry	0 02	50 2	50	04/02/08 21:51	IN GRO IDEC	8040247
						50	04/02/08 21 51	IN GRO IDEC	8040247
Sample ID: NRC2505-05 (VG-02	- Soil) Sample	ed: 03/2	28/08 15:56						
General Chemistry Parameters									
% Dry Solids	58.8		%	0 500	0 500	1	04/03/08 09:49	SW-846	2040415
Total Metals by EPA Method 6010B			**		- +40	•	04/03/08 09.49	3 44-040	8040210
Aluminum	2***								
Antimony	3160 ND <b>U</b>		mg/kg dry	9 45	172	1	04/04/08 14:31	SW846 6010B	8034669
Arsenic			mg/kg dry	241	172	1	04/04/08 14:31	SW846 6010B	8034669
Barium	ND 🔰		mg/kg dry	1 55	1 72	1	04/04/08 14:31	SW846 6010B	8034669
Beryllium	56.9		mg/kg dry	0 859	3 44	I	04/04/08 14:31	SW846 6010B	8034669
Cadmium	ND U	ويجادون	mg/kg dry	0 515	1 72	1	04/04/08 14:31	SW846 6010B	8034569
Calcium	0 378		mg∕kg dry	0 344	I 72	1	04/04/08 14:31	SW846 6010B	8034669
Chromium	5270		mg/kg dry	5 15	172	1	04/04/08 14:31	SW846 6010B	8034669
Cobalt	4.54		mg/kg dry	0 687	1 72	1	04/04/08 14:31	SW846 6010B	8034669
Copper	DA 🗘		mg/kg dry	1 37	1.72	1	04/04/08 14:31	SW846 6010B	8034669
Iron	12.6		mg/kg dry	1 20	3 44	ì	04/04/08 14:31	SW846 6010B	8034669
Lead	3670		mg/kg dry	14.6	172	1	04/04/08 14:31	SW846 6010B	8034669
Magnesium	12.8		mg/kg dry	0 859	1 72	1	04/04/08 14:31	SW846 6010B	8034669
viagnesium Vlanganese	1050		ing/kg dry	7 73	172	1	.04/04/08 14:31	SW846 6010B	8034669
Vickel	153		mg/kg dry	0 515	1.72	1	04/04/08 14:31	SW846 6010B	8034669
Potassium	2.68		mg/kg dry	0 859	1 72	I	04/04/08 14:31	SW846 6010B	8034669
Selonium	2420		mg/kg dry	51.5	172	I	04/04/08 14:31	SW846 6010B	8034669
ilver	6'87 ND <b>V</b>		mg/kg dry	1 89	3 44	1	04/04/08 14:31	SW846 6010B	8034669
Sodium	•	and the same of	mg/kg dry	0 859	1 72	1	04/04/08 14:31	SW846 6010B	8034669
hallium	265	and a second	mg/kg dry	172	344	1	04/04/08 14:31	SW846 6010B	8034669
	ND US	Party.	mg/kg dry	3 26	3 44	1	04/04/08 14:31	SW846 6010B	8034669
/anadíum	5.74	0	mg/kg dry	1 89	172	1	04/04/08 14.31	SW846 6010B	8034669
fine	600		mg/kg dry	5 67	172	Ī	04/04/08 14.31	SW846 6010B	8034669
Mercury by EPA Methods 7470A/7471		thing							
1ercury	0.0654	0	mg/kg dry	0 0497	0 166	1	04/04/08 15:06	SW846 7411A	8040053
Volatile Organic Compounds by EPA !	Method 8260B								
cetone	ND C	RIF	mg/kg dry	213	42 5	50	03/29/08 23:51	SW846 8260B	8034627
enzene	ND U	REN	mg/kg dry	0 570	1.70		33/29/08 23:51	SW846 8260B	8034627
romobenzene		B.≱1	mg/kg dry	0 570	1 70		03/29/08 23:51	SW846 8260B	8034627
romochloromethane	ND LIT	L, RIA	mg/kg dry	0 570	1 70			SW846 8260B	8034627
romodichloromethane	ND $V$	811	mg/kg dry	0.570	1 70			SW846 8260B	8034627
romoform	ND 🔰	RE I	mg/kg dry	0 451	1 70 .			SW846 8260B	8034627
romomethane	ND UT	Ŕij	mg/kg dry	1 34	1 70			SW846 8260B	8034627
Butanone	ND OW	RL1	mg/kg dry	4 25	42.5			SW846 8260B	8034627
c-Butylberizene	ND	R)	mg/kg dry	0 570	1 70	· ·		SW846 8260B	8034627
Butylbenzene	ND	KL1	mg/kg dry	0 570	1 70			SW846 8260B	8034627
rt-Butylbenzene	ND 4	RI	mg/kg dry	0 570	1 70	50 0	2 1100 EJ.J.	0 11 040 0%00D	0034047





2960 Foster Creighton Road Nashwille TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth, GA 30096 Jessica Vickers Áπη

Work Order: NRC2505

Project Name: Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received; 03/29/08 06:45

Analyte	Result	Flag	Units	MDL	MRL	Dilutio Facto		s Method	Batch
Sample ID: NRC2505-05 (VG	-02 - Soin - con	. Samule	ብ• በ3/ኃይ/በዩ	15.56				v	
Volatile Organic Compounds by I	EPA Method 8260	R - cont	u. vorzanu	10.00					
Carbon disulfide	ND L		d- 1	A #:4A	4.0.0				
Carbon Letrachloride	ND (	Rivi	mg/kg dry	0.570	4 25	50	03/29/08 23:51	SW846 8260B	8034627
Chlorobenzene	ND ND	BI. I	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Chlorodioromomethane	ND	Rişi	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Chloroethane	ND	RL1	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Chleroform	ND	RIA	mg/kg dry	0 570	4 25	50	03/29/08 23:51	SW846 8260B	8034627
Chloromethane	ND ND	R) 1	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
2-Chlorotoluene	ND	RLA	mg/kg dry	0 748	1 70	50	03/29/08 23:51	SW846 8260B	8034627
4-Chlorotoluene	ND	ÆL1	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
1.2-Dibromo-3-chloropropane	ND	RD:	mg/kg dry	0.570	1 70	50	03/29/08 23.51	SW846 8260B	8034627
1,2-Dibromoethane (EDB)	ND I	RL1	mg/kg dry	0 850	4 25	50	03/29/08 23,51	SW846 8260B	8034527
Dibromomethane	ם מא	RJA	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
1 4-Dichloroberzene	DN D	CRL1	mg/kg dry	0 459	1 70	50	03/29/08 23:51	SW846 8260B	8034627
1,3-Dichlorobenzene	DN DN	4.101.1	mg/kg dry	0 544	1 70	50	03/29/08 23:51	SW846 8260B	8034627
1.2-Dichlorobenzene	ND ND	ær)	mg/kg dry	0 451	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Dichloredifluoroniethane	ND ND	RÍ I	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846-8260B	8034627
1 1-Dichloroethane	N	RI.	mg/kg dry	0 791	1 70	50	03/29/08 23.51	SW846 8260B	8034627
1.2-Dichloroethane	ND		mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
cis-1.2-Dichloroethene	ND	Rl I	mg/kg dry	0 680	170	50	03/29/08 23:51	SW846 8260B	8034627
1,1-Dichloroethene	ND ND	ŔŊ	mg∕kg dry	0 570	1.70	50	03/29/08 23:51	SW846 8260B	8034627
trans-L2-Dichloroethene	. 1	relj Relj	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
1,3-Dichloropropane	ND ND		mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
1 2-Dichloropropane	ND	RI i	mg/kg dry	0 570	1.70	50	03/29/08 23.51	SW846 8260B	8034627
2,2-Dichloropropane	ND	€ <del>R</del> y1	mg/kg dry	0 570	1.70	50	03/29/08 23.51	SW846 8260B	8034627
cis-1, 3-Dichloropropene	ND	K.	mg/kg dry	0 357	1 70	50	03/29/08 23:51	SW846 8260B	8034627
trans-1_3-Dichloropropene	ND	RI.)	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
I_1-Dichloropropene	ND	R[J	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Ethylbenzene	ND	RL)	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Hexachiorobutadiene	ND	RUI	mg/kg dry	0.570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
2-Hexanone	ND	RIA	mg/kg dry	0 536	4 25	50	03/29/08 23:51	SW846 8260B	8034627
Isopropylbenzene	ND	RbJ ·	mg∕kg dry	3 46	42 5	50	03/29/08 23:51	SW846 8260B	8034627
p-Isopropyltoluene	ND	84C1	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8250B	8034627
	ND	RLI	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Methyl tert-Butyl Bther	ND V	RE_1	mg/kg dry	0 570	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Methylene Chloride	7.37		mg/kg dry	2 96	8 50	50	03/29/08 23:51	SW846 8260B	8034627
4-Methyl-2-pontatione	ND U	RI D	mg/kg dry	3 62	42 5	50	03/29/08 23:51	SW846 8260B	8034627
Naphthalene	2.05	RIG. I	mg/kg dry	1 28	4 25	50	03/29/08 23:51	SW846 8260B	8034627
n-Propylbenzene	ND $oldsymbol{U}$	RH	mg/kg dry	0 451	1.70	50	03/29/08 23:51	SW846 8260B .	8034627
Styrene	ND	RÌT)	mg/kg dry	0 570	1.70	50	03/29/08 23:51	SW846 8260B	8034627
I.I.1.2-Tetrachloroethane	В	R <b>E</b> I	mg/kg dry	0 425	1 70	50	03/29/08 23:51	SW846 8260B	8034627
1.1.2.2-Tetrachloroethane	ND	RI)	mg/kg dry	0 570	1 70		03/29/08 23:51	SW846 8260B	8034627
Terrachleroethene	ND	£π[ I	mg/kg dry	0 570	1 70			SW846 8260B	8034627
Toluene	ND	RIZI	mg/kg dry	0 570	1 70			SW846 8260B	8034627
1,2,3-Trichlorobenzene	םא	ŔЫ	mg/kg dry	0 561	1.70			SW846 8260B	8034627
1,2,4-Trichiorobenzene	ND .	ÆLI,	mg/kg dry	0.553	1 70			SW846 8260B	8034627
1,1 2-Trichloroethane	ND W	LERI I	mg/kg dry	0 867	4 25			SW846 8260B	8034627





2950 Foxler Creighton Road Nashville TN 37204 \* 600-765-0980 \* Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd Building 200, Suite 300

Duluth, GA 30096

Attn Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER

Project Number:

Oliver Springs Oil Well ER

Received: 03/29/08 06:45

ANALYIICAL REPORT	ANALY	HCAL	REPORT
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Analyte	Y)**	¥7. ¥	I Inde	****	N.S. D.Y	Dilutio			······································
white the state of	Result	Flag	Units	MDL	MRL	Facto	Date/Time	Method	Batch
Sample ID: NRC2505-05 (VG-02 -	Soil) - con	t. Sample	d: 03/28/08	15:56					
Volatile Organic Compounds by EPA I	Method 8260	B - cont.							
1.1 1-I richtoroethane	ND &	j rja	mg/kg dry	0.570	1 70	50	AT /20 /00 02. Es	CHIOAE DOZOD	****
Trichloroethene	dи	KL*	mg/kg dry	0.238	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Trichlorofluoromethane	ND	ŔŊ	mg/kg dry	0 570	170	5Q	03/29/08 23:51	SW846 8250B	8034627
1.2.3-Trichloropropane	ND	184 <sub>2</sub> 1	mg/kg dry	0 468	1 70	50	03/29/08 23:51	SW846 8260B	8034627
I 3.5-Trimethylbenzene	ND 🕷	RESI	mg/kg dry	0.570	1 70	50	03/29/08 23:51	5W846 8260B	8034627
1,2 4-Trimethylbenzene	1.21		mg/kg dry	1 08	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Vinyl chloride	ND V	RAL J	mg/kg dry	0 604	1 70	50	03/29/08 23:51	SW846 8260B	8034627
Xylenes, total	ND U	RLI	mg/kg dry	1 46	4 25	50	03/29/08 23:51	SW846 8260B	8034627
Surt 1 7-Dichlorosthans-d4 (41-150%)	103 %	4×az ·	mg/ag dry	1 40	4 23		03/29/08 23:51	SW846 8260B	8034627
Surr Dibromofluoromethane (55-139%)						50	03/29/08 23 51	SW846 8260B	8034627
Surr. Toluene-d8 (57-148%)	105 %					50	03/29/08 23 51	SW846 8260B	8034627
• •	97%					50	03/29/08 23 51	SW846 8260B	8034627
Surr 4-Bromofluorobenzene (58-150%)	93 %					50	03/29/08 23 51	SW846 8260B	8034627
Semivolatile Organic Compounds by El	PA Method t	8270C				,,,	20,200		
Acenaphthene	ND T	)	mg/kg dry	1 36	14 6	1	03/30/08 16:43	SW846 8270C	8034561
Acenaphthylene	אם ו	Ũ	mg/kg dry	I 40	14 6	1	03/30/08 16:43	SW846 8270C	
Anthracene	172	(D)	mg/kg dry	1 45	14.6	i	03/30/08 16.43	SW846-8270C	8034561
Benzo (a) anthracene	ND L		mg/kg dry	1 67	14 6	i	03/30/08 16.43	SW846 8270C	8034561 8034561
Benzo (a) pyrene	ND $\r$		mg/kg dry	1 27	14.6	1	03/30/08 16.43	SW846 8270C	8034561
Benzo (b) fluoranthene	ND		mg/kg dry	1 40	14 6	ì	03/30/08 16.43	SW846 8270C	8034561
Bonzo (g.h,i) perylene	ND		mg/kg dry	1 27	14.6	1	03/30/08 16.43	SW846 8270C	
Benzo (k) fluoranthene	ND		mg/kg dry	1 27	14 6	1			8034561
4-Bromophenyl phenyl ether	ИD		mg/kg dry	4 87	14 6	1	03/30/08 16:43	SW846 8270C SW846 8270C	8034561
Butyl benzyl phthalate	ND		mg/kg dry	3 90	14 6	1	03/30/08 16:43		8034561
Carbazole	ND		mg/kg dry	7 23	146	1	03/30/08 16:43	SW846 8270C	8034561
1-Chlura-3-methylphenol	ND		mg/kg dry	4 38	14.6	1	03/30/08 16:43	SW846 8270C	8034561
f-Chloroanitine	ND	•	mg/kg dry	127	14.5	1	03/30/08 16:43	SW846 8270C	8034561
3is(2-chloroethoxy)methane	ND		mg/kg dry	4 87	14 6	i	03/30/08 16:43	SW846 8270C	8034561
3is(2-chloroethyl)ether	ИD		mg/kg dry	5 92	14.6	1	03/30/08 16.43	SW846 8270C	8034561
Bis(2-chloroisopropyl)ether	ND		mg/kg dry	4 47	14 6	1	03/30/08 16.43	SW846 8270C	8034561
-Chloronaphthalene	ND		mg/kg dry	2 98	14.6	1	03/30/08 16:43	SW846 8270C	8034561
-Chlorophenoi	ND		mg/kg dry	4 78	14 6	1	03/30/08 16:43	SW846 8270C	8034561
-Chlorophenyi phenyi ether	ND 🕦	I	mg/kg dry	4 87	14 6	1	03/30/08 16:43	SW846 8270C	8034561
hrysene	3.54	(I)	mg/kg dry	1 71	14 6	ì	03/30/08 16.43	SW846 8270C	8034561
Dibenz (a.h) anthracene	ND U	Support .	mg/kg dry	1 36	146	1	03/30/08 16:43	SW846 8270C	8034561
Dibenzofuran	9.01	70	mg/kg dry	3 90	146		03/30/08 16.43	SW846 8270C	8034561
i-n-butyl phthalate	ND U		mg/kg dry	3 77	14.6	-	03/30/08 16:43	SW846 8270C	8034561
4-Dichlorobenzene	ND 1		mg/kg dry	5 04	14.6	•	03/30/08 16:43	SW846 8270C	8034561
2-Dichlorobenzene	ND		mg/kg dry	3 86	146		03/30/08 16:43	SW846 8270C	8034561
3-Dichlorobenzene	ND		mg/kg dry	3 51	14.6		03/30/08 16:43	SW846 8270C	8034561
3-Dichlorobenzidine	ND		mg/kg dry	118	29 2		03/30/08 16:43	SW846 8270C	8034561
4-Dichlorophenol	ND		mg/kg dry	381	146		03/30/08 16:43	SW846 8270C	8034561
icthyl phthalate	ND			2 19	146		03/30/08 16:43	SW846 8270C	8034561
4-Dimethylphenol	ND V		mg/kg dry	123	146		03/30/08 16:43	SW846 8270C	8034561
· · · · · · · · · · · · · · · · · · ·	11 H-2 1997	and the second second second	mg/kg dry	(4.3	140	l	03/30/08 16:43	SW846.8270C	8034561



2990 Foster Creighton Road Nashville TN 37204 \* 800-765-0980 \* Fax 615-728-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200 , Suite 300

Duluth, GA 30096

Attn Jessica Vickers

Work Order:

NRC2505

Project Name

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received,

03/29/08 06:45

Analyte	Result	Flag	Units	MDL	MRL	Dilutie Facto		2 Method	Batch
Sample ID: NRC2505-05 (VG-02	- Soil) - cont	Sample	ed: 03/28/08	15:56			************	* - 4 * * * * * * * * * * * * * * * * *	**********
Semivolatile Organic Compounds by	EPA Method 8	3270 <b>C</b> - ca	ont.						
Dimethyl phthalate	ND L	)	mg/kg dry	3 86	14 6	1	03/30/08 16:43	CITTO AC OR TOC	. 003 4 8 6 4
4.6-Dinitro-2-methylphenol	ND		mg/kg dry	3 99	36.5	,	03/30/08 16:43	SW846 8270C	8034561
2.4-Dinitrophenol	מא		mg/kg dry	5 92	36 5	,		SW846 8270C	8034561
2 6-Dinitrotoluene	dИ		mg/kg dry	4 87	14 6	,	03/30/08 16:43 03/30/08 16:43	SW846 8270C	8034561
2,4-Dinitrotoluene	מא		mg/kg dry	3 86	14 6	i	03/30/08 16:43	SW846 8270C SW846 8270C	8034561
Di-n-octyl phthalate	ND 🐠	,	mg/kg dry	5 79	14 6	ì	03/30/08 16:43		8034561
Bis(2-ethylhexyl)phthalate	295		mg/kg dry	24 3	73 0	5	03/30/08 10:43	SW846 8270C - SW846 8270C	8034561
Fluoranthene	$oldsymbol{U}$ an	!	mg/kg dry	1 49	14.6	1	03/30/08 16:43	SW846 8270C	8034561
Fluorene	ND I		mg/kg dry	171	14.6	1	03/30/08 16:43	SW846 8270C	8034561
Hexachlorobenzene	ND		mg/kg dry	3 64	14.6	1	03/30/08 16:43		8034561
Rexachlorobutadiene	ND		mg/kg dry	4 73	146	i		5W846 8270C	8034561
Hexachlorocyclopentadiene	ND		mg/kg dry	4 87	14.6	,	03/30/08 16:43 03/30/08 16:43	SW846 8270C	8034561
Hexachloroethane	ND		mg/kg dry	4 60	14.6	1		SW846 8270C	8034561
Indeno (1,2 3-cd) pyrene	ND		mg/kg dry	1 36	14.6	1	03/30/08 16 43	SW846 8270C	8034561
Isophorone	ND 🎳		mg/kg dry	4 38	14 6	i	03/30/08 16:43 03/30/08 16:43	SW846 8270C SW846 8270C	8034561
2-Methylnaphthalene	3.93	$\mathcal{O}$	mg/kg dry	1 45	146	1	-		8034561
2-Methylphenol	ND U	Acres No.	mg/kg dry	4 34	146	1	03/30/08 16:43	SW846 8270C	8034561
3/4-Methylphenol	ND 1.2	\$	mg/kg dry	6 36	14 6	1	03/30/08 16:43	SW846 8270C	8034561
Naphthalene	ND U	=	mg/kg dry	1 80	14.6	ŀ	03/30/08 16:43	SW846 8270C	8034561
3-Nitroaniline	ND 🕻		mg/kg dry	4 82	36.5	ì	03/30/08 16:43 03/30/08 16:43	SW846 8270C	8034561
2-Nitroaniline	ND		mg/kg dry	4 87	36 5	i		SW846 8270C	8034561
4-Nitroaniline	ND		mg/kg dry	12 1	36 5	1	03/30/08 16:43	SW846 8270C	8034561
Nitrobenzene	ND		mg/kg dry	4 65	14 6	í	03/30/08 16:43 03/30/08 16:43	SW846 8270C	8034561
4-Nitrophenol	ND		mg/kg dry	12.1	36.5	· [		SW846 8270C	8034561
2-Nitrophenol	ND 🐓	•	mg/kg dry	8 63	146	1	03/30/08 16:43	SW846 8270C	8034561
N-Nitrosodiphenylamine	27.2		mg/kg dry	4 78	14 6	1		SW846 8270C	8034561
N-Nitrosodi-n-propylamine	ND U	1	mg/kg dry	5 35	146	1	03/30/08 16:43	SW846 8270C	8034561
Pentachlorophenol	ND U		mg/kg dry	3 24	36 S	1	03/30/08 16:43	SW846 8270C	8034561
Phonanthrone	[14		mg/kg dry	1 49	14.6	1	03/30/08 16:43	SW846 8270C	8034561
Phenol	ND ()	Section 200	mg/kg dry	3 02	14 6	,	03/30/08 16:43	SW846 8270C	8034561
Pyrene	3.46	<b>(</b> D)	mg/kg dry	1 80	14.6	i	03/30/08 16:43	SW846 8270C	8034561
1,2 4-Trichlorobenzene	ND $oldsymbol{\mathcal{U}}$	C. Martin	mg/kg dry	4 87	146	1	03/30/08 16:43	SW846 8270C	8034561
1-Methylnaphthalene	LU DN	(A)	mg/kg dry	1 40	146	1	03/30/08 16:43	SW846 8270C	8034561
2.4.6-Trichlorophenol	ND D		mg/kg dry	3 81	146		03/30/08 16:43	SW846 8270C	8034561
2,4,5-Trichlorophenol	ND Ū		mg/kg dry	2 98	36.5		03/30/08 16:43	SW846 8270C	8034561
urt Terphenyl-d14 (26-128%)	92 %		mg ag ary		J. C. J.		03/30/08 16:43	SW846 8270C	8034561
har 2 4 6-Tribromophenol (20-132%)	89 %					I	93/30/08 16:43	SW846 8270C	80.34561
nar Phenol-d5 (23-113%)						I = I	03/30/08 16 43	SW846 8270C	8034561
· · ·	68 %					1 (	3/30/08 16.43	SW846 8270C	8034567
urr 2-Fluorobiphenyl (19-109%)	84 %					1 (	3/30/08 16.43	SW846 8270C	8034561
urr 2-Fluorophenol (19-105%)	76 %							SW846 8270C	8034561
urr Nitrobenzene-d5 (22-104%)	90 %							SW846 8270C	8034561
Extractable Petroleum Hydrocarbons							***		
Extractable Petroleum Hydrocarbons (EPH)	612000 🏋	•	mg/kg dry	12700	13100	100 (	04/02/08 01:56	IDHE	8034655





2980 Foster Creighian Road Nashville TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth, GA 30096

Attn Jessica Vickers

Work Order:

NRC2505

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received.

03/29/08 06:45

#### ANALYTICAL REPORT

Analyte	Result	Flag U	Inits	MDL	MRL	Dilution Factor	Analysis Date/I ime	Methed	Batch
Sample ID: NRC2505-05 (VG-02 - Extractable Petroleum Hydrocarbons -	Soil) - cont.	Sampled: 03	3/28/08 1	15:56					
Surr o-Terphenyl (50-150%)	*:	73 Summe	e.			100	04/02/08 01 56	IDHE	8034655
Purgeable Petroleum Hydrocarbons GRO (C6-C10) TN	173	me	z∕kg drv	6 80	68 ()	50	04/02/08 22:23	IN GRO IDEC	\$040047
Surr a a a-Trifluorotoluene (52-145%)	73 %		,				04/02/08 22 23	IN GROTHEC	8040247 <i>8040247</i>

01/04/08 (387)



2960 Faster Creighton Road Nashville TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth GA 30096

Jessica Vickers

Work Order;

NRD0081

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

04/01/08 17:30

ANAL	VIII	ግልዝ	CHTG	рT

Analyte	Result	Flag	Units	MDL	MRI	Dilution Factor	Analysis Date/I ime	Method	Batch
Sample ID: NRD0081-01 (SF-03 (B	ackfill Sou	rce) - Soil)	Sampled	: 04/01/08 1	1:35				
Total Metals by EPA Method 6010B									
Aluminum	12400	MIN Com	mg/kg	5 54	101	1	04/02/08 13:24	5W846 6010B	8040230
Antimony		<b>)</b>	mg/kg	141	10 1	1	04/02/08 13:24	SW846 6010B	8040230
Arsenic	4.07	•	mg/kg	0 907	101	ł	04/02/08 13:24	SW846 6010B	8040230
Barium	95.8		mg/kg	0.504	2 02	1	04/02/08 13:24	SW846 6010B	8040230
Beryllium	0.726	(1)	mg/kg	0 302	101	1	04/02/08 13:24	SW846 6010B	8040230
Cadmium	1,15	Same of the same o	mg/kg	0 202	1 01	1	04/02/08 13:24	SW846 6010B	8040230
Calcium	754		mg/kg	3 02	10 1	ı	04/02/08 13:24	SW846 6010B	8040230
Chromium	12.2		mg/kg	0 403	101	1	04/02/08 13:24	SW846 6010B	8040230
Cobalt	10.4		mg/kg	0.806	1 01	1	04/02/08 13:24	SW846 6010B	8040230
Copper	13 9		mg/kg	0 706	2 02	t	04/02/08 13:24	SW846 6010B	8040230
Iron	16500	Minco	mg/kg	8 57	10 (	i	04/02/08 13:24	SW846 6010B	8040230
Lead	13.6	-	mg/kg	0 504	101	ł	04/02/08 13:24	SW846 6010B	8040230
Magnesium	1420		mg/kg	4 54	10 1	į.	04/02/08 13:24	SW846 6010B	8040230
Manganese	541	M2	mg/kg	0 302	1 01	ì	04/02/08 13:24	SW846 6010B	8040230
Nickel	176		mg/kg	0 504	1 01	i	04/02/08 13:24	SW846 6010B	8040230
Potassium	2060		mg/kg	30 2	101	i	04/02/08 13:24	SW 846 6010B	8040230
Selenium	3.35	-Bus	mg/kg	111	2 02	1	04/02/08 13:24	SW846 6010B	8040230
Silver	ND U	•	mg/kg	0.504	l 01	1	04/02/08 13:24	SW846 6010B	8040230
Sodium	185	AT)	mg/kg	101	202	l	04/02/08 13:24	SW846 6010B	8040230
Thallion	ND U	Sa North	mg/kg	1 92	2 02	ì	04/02/08 13:24	SW846 6010B	8040230
Vanadium	20.8		mg/kg	111	10 (	1	04/02/08 13:24	SW846 6010B	8040230
Zinc	58.9		mg/kg	3 33	10 t		04/02/08 13:24	SW846 6010B	8040230
			ntB v8	D 50	151		04/02/08 13:24	011040 COTOL	00/0220
Mercury by EPA Methods 7470A/7471/		4975-64							
Mercury	0 0501	0	mg/kg	0 0296	0 0985	ĭ	04/02/08 10:18	SW846 7471A	8040222
Organochlorine Pesticides by EPA Meth									
Aldrin	ND 🕡	3	mg/kg	0 000793	0 00168	1	04/02/08 09:56	SW846 8081A	8040200
delta-BHC	ND 🌙		mg/kg	0 000396	0 00168	i	04/02/08 09:56	SW846 8081A	8040200
alpha-BHC	ND		mg/kg	0 000496	0 00168	1	04/02/08 09:56	SW846 8081A	8040200
beta-BHC	ND		mg/kg	0 00119	0 00327	1	04/02/08 09:56	SW846 8081A	8040200
gamma-BHC (Lindane)	מא		mg/kg	0 000694	0 00168	1	04/02/08 09:56	SW846 B081A	8040200
alpha-Chlordane	ND		mg/kg	0 000496	0 00168	1	04/02/08 09:56	SW846 8081A	8040200
gamma-Chlordane	ND		mg/kg	0 000793	0.00168	1	04/02/08 09:56	SW846 8081A	8040200
Chlordane	ND		mg/kg	0 0119	0 0661	i	04/02/08 09:56	SW846 8081A	8040200
4 4 -DDD	ND		nig/kg	0 000496	0 00168	1	04/02/08 09:56	SW846 8081A	8040200
4 4 - DDE	ND		mg/kg	0 000396	801000	1	04/02/08 09:56	SW846 8081A	8040200
4.4.DDT	ND		mg/kg	0 000496	9 00168	1	04/02/08 09:56	SW846 8081A	8040200
Dieldrin	ND		mg/kg	0 000496	0 00168	1	04/02/08 09:56	SW846 8081A	8040200
Endosulfan (	ND		mg/kg	0 000496	80100 0	1	04/02/08 09:56	SW846 8081A	8040200
Endosulfan II	ND		mg/kg	0 000694	0 00168	1	04/02/08 09:56	SW846 8081A	8040200
Endosulfan sulfate	ND		mg/kg	0 000595	0 00168	1	04/02/08 09:56	SW846 8081A	8040200
Endrin	ND		mg/kg	0 000595	0.00168	ŧ	04/02/08 09:56	SW846 8081A	8040200
Endrin aldehyde	ND		mg/kg	0.000496	0 00168	1	04/02/08 09:56	SW846 8081A	8040200
Endrin ketone	ND V	•	mg/kg	0 000496	0 00168	ī	04/02/08 09:56	SW846 8081A	8040200
	- Landerstein Park	7	·	•					



2960 Foster Creighton Road Nashville "TN 37264" 800-766-0980 " Fax 615-726-3404

Tetra Tech EMI (7797) Client

1935 Evergreen Blvd. Building 200, Suite 300

Duluth GA 30096

Jessica Vickers Atm

1 7-Dichlorobenzene

Work Order:

NRD0081

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number; Received:

04/01/08 17:30

			ANALY	TICAL REPO	ORI				
Analyte	Result	Flag	Units	MDL	MRL	Dilutior Factor		Method	Batch
Sample ID: NRD0081-01 (SF-03 (B	ackfill Sou	rce) - Soil	- cont. S	muled: 04/	01/08 11:35				
Organochlorine Pesticides by EPA Meth									
Heptschlor				0 000595	0.00168	,	0.4 (0.0) (0.0) (0.0)	C221047 6061 4	2010200
Heptachlor spoxide	J CM I DM	#	mg/kg	0.000393	0.00168	] l	04/02/08 09:55	SW846 8081A	8040200
Methoxychlor	ND		mg/kg	0 000595	0 00108	1	04/02/08 09:56	SW846 8081A	8040200
Toxaphene	ND J		mg/kg mg/kg	0 0287	0 0661	1	04/02/08 09:56	SW846 8081A	8040200
Sur Tetrachloro-meta-xylene (10-150%)	88 %		115/15	3 020,	0 0001		04/02/08 09:56	SW846 8081A	8040200
Sur Decachlorobiphanyl (12-150%)	78 %					i	04/02/08 09 56	SW846 8081A	8040200 8040200
Polychlorinated Biphenyls by EPA Mett						. 1	04/02/08 09 56	SW846 8081A	0070200
PCB-1016	ND ()		mg/kg	0 00930	0 0329	1	04/02/08 11:18	SW846 8082	8040199
PCB-1221	ND		mg/kg	0 0267	0 0329	1	04/02/08 11:18	SW846 8082	8040199
PCB-1232	ND		mg/kg	0.0148	0 0329	1	04/02/08 11:18	SW846 8082	8040199
PCB-1242	ND		mg/kg	0.0158	0 0329	1	04/02/08 11:18	SW846 8082	8040199
PCB-1248	ND		mg/kg	0.0287	0 0329	l	04/02/08 11:18	SW846 8082	8040199
PCB-1254	ND		mg/kg	0 0168	0 0329	1	04/02/08 [1:18	SW846 8082	8040199
PCB-1260	ND W		mg/kg	0 0267	0 0329	I	04/02/08 11:18	SW846 8082	8040199
Surr Tetrachlora-meta-xylene (15-150%)	98 %					1	04/02/08 11 18	SW846 8082	8040199
Surr Decachlorobiphenyl (10-150%)	78 %					1	04/02/08 [] 18	SW846 8082	8040199
Volatile Organic Compounds by EPA M									
Acetone	nd Pa		mg/kg	0 0235	0 0469	1	04/01/08 19:01	SW846 8260B	8040197
Benzene	ND	Ų	mg/kg	0 000629	0 00188	ŧ	04/01/08 19:01	SW846 8260B	8040197
Bromobenzene	ND		mg/kg	0 000629	0 00188	1	04/01/08 19:01	SW846 8260B	8040197
Bromochloromethane	ND	economic de la constante de la	mg/kg	0 000629	881000	t	04/01/08 19:01	SW846 8260B	8040197
Bromodichloromethane	ND		mg/kg	0 000629	0 00188	1	04/01/08 19:01	SW846 8260B	8040197
Bromoforta	ND	l	mg/kg	0 000497	0 00188	Į	04/01/08 19:01	SW846 8260B	8040197
Bromomethane	ND	4	mg/kg	0 00147	0 00188	1	04/01/08 19:01	SW846 8260B	8040197
2-Butanone	ND 🦧		mg/kg	0 <b>0</b> 04 <b>69</b>	0 0469	1	04/01/08 19:01	SW846 8260B	8040197
sec-Butylbenzene	ND		mg/kg	0 000629	0 00188	1	04/01/08 19:01	SW846 8260B	8040197
n-Butylbenzene	ND		mg/kg	0 000629	0 00188	1	04/01/08 [9:0]	SW846 8260B	8040197
tert-Butylbenzene	ND		mg/kg	0 000629	0.00188	1	04/01/08 19:01	SW846 8260B	8040197
Carbon disulfide	ND		mg/kg	0 000629	0 00469	ì	04/01/08 19:01	SW846 8260B	8040197
Carbon Tetrachloride	ND	حماكما	mg/kg	0 000629	0.00188	1	04/01/08 19:01	SW846 8260B	8040197
Chlorobenzene	ND		mg/kg	0 000629	0.00188	ţ	04/01/08 19:01	SW846 8260B	8040197
Chlorodibromomethane	ND		mg/kg	0 000629	0.00188	ŧ	04/01/08 19:01	SW846 8260B	8040197
Chloroethane	ND		mg/kg	0 000629	0 00469	1	04/01/08 19:01	SW846 8260B	8040197
Chloroform	ND		mg/kg	0 000629	881000	1	04/01/08 19:01	SW846 8260B	8040197
Chloromethane	ND		mg/kg	0 000826	0 00188	1	04/01/08 19:01	SW846 8260B	8040197
2-Chlorotoluene	ND		mg/kg	0 000629	0 00188	*	04/01/08 19:01	SW846 8260B	8040197
i-Chlorotaluene	ND	į.	mg/kg	0 000629	0 00188	l	04/01/08 19:01	SW846 8260B	8040197
2-Dibromo-3-chloropropane	ND	1	mg/kg	0 000938	0 00469	1	04/01/08 19:01	SW846 8260B	8040197
2-Dibromoethane (EDB)	МD	Į	mg/kg	0 000629	0 00188	1	04/01/08 19:01	SW846 8260B	8040197
Dibromomethane	ND		mg/kg	0 000507	0.00188	1	04/01/08 19:01	SW846 8260B	8040197
4-Dichlorobenzene	ND		mg/kg	0 000600	0 00188	1	04/01/08 19:01	SW846 8260B	8040197
3-Dichlorobenzene	ND	Tipo and the same of the same	mg/kg	0 000497	881000	ſ	04/01/08 19:01	SW846 8260B	8040197
2 Diahlasahannaa	3 T275	8.4	-	A BAAZGA	0.00100				

8040197

04/01/08 19:01 SW846 8260B

0 000629

mg/kg

0.00188



2960 Foster Creighton Road Nashville. TN 37304 \* 600-755-0980 \* Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd Building 200. Suite 300

Duloth, GA 30096

Attn Jessica Vickers

Work Order:

NR.D0081

Project Name: Project Number: Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Received:

ANALYTICAL REPORT

04/01/08 17:30

Analyte	Result F	lag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batel
Sample ID: NRD0081-	01 (SF-03 (Backfill Source)	- Soil) -	cont. Sa	mpled: 04/0	1/08 11:35				
Volatile Organic Compou	inds by EPA Method 8260B - c	ont						•	
Dichlorodifluoromethane	ND U		mg/kg	0 000872	0 00188	i	04/01/08 19:01	SW846 8260B	8040197
1 1-Dichloroethane	ND T		mg/kg	0 000629	0 00188	1	04/01/08 19:01	SW846 8260B	8040193
1.2-Dichloroethane	מא		mg/kg	0 000750	0 00188	1	04/01/08 19:01	SW846 8260B	8040197
cis-1 2-Dichloroethene	ND		mg/kg	0 000629	881000	1	04/01/08 19:01	SW846 8260B	8040197
1 I-Dichloroethene	ND		mg/kg	0 000629	0.00188	1	04/01/08 19:01	SW846 8260B	8040197
trans-1 2-Dichloroethene	ая		mg/kg	0 000629	0.00188	l	04/01/08 19:01	SW846 8260B	8040193
1 3-Dichtoropropane	ND W		mg/kg	0 000629	0 00188	1	04/01/08 19:01	SW846 8260B	8040193
1 2-Dichloropropane	ND a		mg/kg	0 000629	0.00188	1	04/01/08 19:01	SW846 8260B	8040197
2 2-Dichloropropuse	ND B		mg/kg	0 000394	0 00188	Į.	04/01/08 19:01	SW846 8260B	8040197
cts-1-3-Dichleropropene	ND		mg/kg	0 000629	88100 0	}	04/01/08 19:01	SW846 8260B	8040197
trans-1.3-Dichloropropene	ND		mg/kg	0 000629	0 00188		04/01/08 19:01	SW846 8260B	8040197
1 (-Dichloropropene	ND		mg/kg	0 000629	0.00188	ì	04/01/08 19:01	SW846 8260B	8040197
Ethylbenzene	ND I		mg/kg	0 000629	0.00188	1	04/01/08 19:01	SW846 8260B	804019
Hexachlorobitadiene	ND :		mg/kg	0.000591	0 00469	1	04/01/08 19:01	SW846 8260B	804019
2-Hexanone	ND 43-7	A Property of	mg/kg	0 00382	0 0469	I	04/01/08 19:01	SW846 \$260B	804019
lsopropylbenzene	ND I		mg/kg	0 000629	88100 0	}	04/01/08 19:01	SW846 8260B	804019
p-(sopropy)toluene	ND .		mg/kg	0 000629	88100 0	1	04/01/08 19:01	SW846 8260B	804019
Methyl tert-Butyl Ether	ND V		mg/kg	0 000629	0.00188	ļ	04/01/08 19:01	SW846 8260B	804019
Methylene Chloride	0.00938 400680 U	Jan Berns	mg/kg	0 00326	0 00938	1	04/01/08 19:01	SW846 8260B	8040191
4-Methyl-2-pentanone	ND (43-		ing/kg	0 00400	0.0469	1	04/01/08 19:01	SW846 8260B	8040193
Naphthulene	ND	1	mg/kg	0 00142	0 00469	ŧ	04/01/08 19:01	SW846 8260B	804019
n-Propylbanzone	ND		mg/kg	0 000497	0.00188	1	04/01/08 19:01	SW846 8260B	804019
Styrene	ND		mg/kg	0 000629	0.00188	1	04/01/08 19:01	SW846 8260B	8040191
1   2-Tetrachloroethane	ND		mg/kg	0 000469	0 00188	Ł	04/01/08 19:01	SW846 8260B	804019
1   2 2-Tetrachloroethane	ND	e de la composition della comp	mg/kg	0 000629	881000	1	04/01/08 19:01	SW846 8260B	804019
Tetruchloroethene	ИD	h û	mg/kg	0 000629	0.00188	1	04/01/08 19:01	SW846 8260B	804019
Loluene	ND		mg/kg	0 000629	0 00188	ì	04/01/08 19:01	SW846 8260B	8040191
2 3-1 richtorobenzene	ND		mg/kg	0.000619	0.00188	1	04/01/08 19:01	SW846 8260B	804019
2.4-Trichlerobenzene	ND		mg/kg	0 000610	0.00188	i	04/01/08 19:01	SW846 8260B	804019
1.1.2-1 richloroethane	ND	į.	mg/kg	0 000957	0 00469	ì	04/01/08 19:01	SW846 8260B	804019
1.1 2-1 richloroethane	ND	100	mg/kg	0 000629	0 00188	1	04/01/08 19:01	SW846 8260B	804019
I richloroethene	ND		mg/kg	0 0000263	0.00188	i	04/01/08 19:01	SW846 8260B	804019
Trichloroffluoromethane	ND		mg/kg	0 000629	0 00168	1	04/01/08 19:01	SW846 8260B	804019
1 2 3-1 richioropropane	ND ND	Ĭ	mg/kg	0 000516	0 00188	i	04/01/08 19:01	SW846 8260B	8040197
1 3 5-Trimethylbenzene	ND		mg/kg	0 000629	0 00188	1	04/01/08 19:01	SW846 8260B	8040197
1.3.3-11Highly to that the	(46)	Ø	MENE	0.000025	0 00100		04/01/04 15:01	SANSAK SUKUD	8040107

Semivolatile Organic Compounds by EPA Method 8270C

1,2.4-Trimethylbenzone

Sur Toluene-d8 (57-148%)

Surr 1 2-Dichloroethane-d4 (41-150%)

Surs Dibsomofluoromethane (55-139%)

Surr 4-Bromofluorabenzene (58-150%)

Vinyl chloride

Xylenes total



ND

ND

ND

96 %

110%

118%

120%

SW846 8260B

04/01/08 19:01

04/01/08 19:01

04/01/08 19:01

04/01/08 19:01

04/01/98 19.01

04/01/08 19 01

04/01/08 19:01

8040197

8040197

8040197

8040197

8040197

8040197

8040197

0 00119

0 000666

0 00161

mg/kg

mg/kg

mg/kg

88100 0

0.00188

0 00469



2960 Fosler Creighton Road Nashville TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth GA 30096

Aun

Jessica Vickers

Work Order:

NRD0081

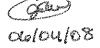
Project Name:

Ofiver Springs Oil Well ER Ofiver Springs Oil Well ER

Project Number: Received:

04/01/08 17:30

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD0081-01 (SF-0	3 (Backfill Sour	ce) - Seil	) - cont. Sa	mpled: 04/0	1/08 11:35				***
Semivolatife Organic Compounds									
Acenaphthone	ND U		mg/kg	0 0301	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Acenaphthylene	ND I		mg/kg	0 0311	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Authracene	ND		mg/kg	0 0321	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Benzo (a) anthracene	GN		mg/kg	0 0369	0 324	1	04/02/08 13.53	SW846 8270C	8040196
Benzo (a) pyrene	ND		mg/kg	0 0282	D 324	1	04/02/08 13:53	SW846 8270C	8040196
Benzo (b) fluoronthene	ИD		mg/kg	00311	0 324	i	04/02/08 13:53	SW846 8270C	8040196
Benzo (g h,i) perylene	ND		mg/kg	0 0282	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Benzo (k) fluoranthene	ND		mg/kg	0 0282	0 324	ŧ	04/02/08 13:53	SW846 8270C	8040196
4-Bromophenyl phenyl other	ND		mg/kg	0 108	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Butyl benzyl phihalate	מא		mg/kg	0 0865	0.324	1	04/02/08 13:53	SW846 8270C	8040196
Carbazole	ND		mg/kg	0 160	0 324	1	04/02/08 13:53	SW846 8270C	8040196
4-Chloro-3-methylphenel	ND		mg/kg	0 0972	0 324	ĭ	04/02/08 13:53	SW846 8270C	8040196
4-Chloroaniline	ND		mg/kg	0 281	0 324	i	04/02/08 13:53	SW846 8270C	8040196
Bis(2-chloroethoxy)methane	ND		mg/kg	0 108	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Bis(2-chloroethyl)ether	ND		mg/kg	0 131	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Bis(2-chloroisopropyl)ether	ND		mg/kg	0 0991	0 324	1	04/02/08 13:53	SW846 8270C	8040196
2-Chloronaph(halene	ND I		mg/kg	0 0661	0 324	t	04/02/08 13:53	SW846 8270C	8040196
2-Chlorophenol	ND		mg/kg	0 106	0 324	i	04/02/08 13:53	SW846 8270C	8040196
4-Chlorophenyl phenyl ether	+ ND		mg/kg	0 108	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Chrysene	ND)		mg/kg	0 0379	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Dibenz (a.h) anthracene	ND		mg/kg	0.0301	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Dibenzofuran	ND		mg/kg	0.0865	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Di-n-butyl phthalate	ND		mg/kg	0 0836	0 324	1	04/02/08 (3:53	SW846 8270C	8040196
4-Dichlorobenzene	ND		mg/kg	0112	0 324	i	04/02/08 13:53	SW846 8270C	8040196
1 2-Dichlorobenzenc	DИ		mg/kg	0 0855	0 324	1	04/02/08 13:53	SW846 8270C	8040196
1 3-Dichlorobenzene	ND		mg/kg	. 0 0777	0 324	i	04/02/08 (3:53	SW846 8270C	8040196
3.3-Dichlorobenzidine	ND		mg/kg	0 262	0 648	ŧ	04/02/08 13:53	SW846 8270C	8040196
2. 4-Dichlorophenol	ND		mg/kg	0 0845	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Diethyl phthalate	ND		mg/kg	0 0486	0 324	t	04/02/08 13:53	SW846 8270C	8040196
2 4-Dimethylphenol	ND		mg/kg	0 273	0 324	I	04/02/08 13:53	SW846 8270C	8040196
Oimethyl phthalate	ND		mg/kg	0 0855	0 324	I	04/02/08 13:53	SW846 8270C	8040196
4 6-Dinitro-2-methylphenol	ND		mg/kg	0.0884	0810	l	04/02/08 13:53	SW846 8270C	8040196
2 4-Dinitrophenol	ND		mg/kg	0 131	0.810	1	04/02/08 13:53	SW846 8270C	8040196
2 6-Dinitrotoluene	ND		mg/kg	0 108	0 324	1	04/02/08 13:53	SW846 8270C	8040196
2 4-Dinitrotoluene	ND		mg/kg	0 0855	0 324	ì	04/02/08 13:53	SW846 8270C	8040196
Di-n-octyl phthalate	ND		mg/kg	0 128	0 324	į.	04/02/08 13:53	SW846 8270C	8040196
Bis(2-ethylhexyl)phthalate	ND		mg/kg	0 108	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Fluoranthene	ND		mg/kg	0.0330	0 324	ı	04/02/08 13:53	SW846 8270C	8040196
Fluorene	ND		mg/kg	0 0379	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Hexachlorobenzene	ДИ		mg/kg	0 0807	0 324	3	04/02/08 13:53	SW846 8270C	8040196
Hexachiorobutadiene	מא		mg/kg	0 105	0.324	ł	04/02/08 13:53	SW846 8270C	8040196
Hexachlorocyclopentadiene	ND		mg/kg e/kg	0 108	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Hexachloroethane	ND		mg/kg	0 102	0 324	1	04/02/08 13:53	SW846 5270C	8040196
Indeno (1 2,3-cd) pyrene	αи		mg/kg	0 0301	0 324	Į.	04/02/08 13:53	SW846 8270C	8040196
Isopharone	ND V		mg/kg	0 0972	0 324	1	04/02/08 13:53	SW846 8270C	8040196





2960 Foster Creighton Road Nashvillo TN 37204 \* 800-765-0980 \* Fax 815-725-3404

Client Tetra Tech EM1 (7797)

1955 Evergreen Blvd , Building 200 Suite 300

Duluth, GA 30096

Attn Jessica Vickers

Work Order:

NRD0081

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

04/01/08 17:30

ANALYTICAL REPORT	TICAL REPORT
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Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor		Method	Batch
Sample ID: NRD0081-01 (SF-03 (Ba	ckfill Sou	ce) - Soil	l) - cont. Sa	mpled: 04/0	11/08 11:35				
Semivolatile Organic Compounds by EP	A Method 8	270C - coi	nt						
2-Methy Inaphthalene	ND U		mg/kg	0 0321	0 324	1	04/02/08 13:53	SW846 8270C	8040196
2-Methylphenol	ND Ŭ		mg/kg	0 0962	0 324	ı	04/02/08 13:53	SW846 8270C	8040196
3/4-Methylphenol	ND U	<b>(*</b>	mg/kg	0 14 1	0 324	ī	04/02/08 13:53	\$W846 8270C	8040196
Naphthalene	ND U		mg/kg	0 0398	0 324	1.	04/02/08 (3:53	SW846 8270C	8040196
3-Nitroaniline	ND		mg/kg	0 107	0810	1	04/02/08 13:53	SW846 8270C	8040196
2-Nitroaniline	ND		mg/kg	0 108	0 810	1	04/02/08 13:53	SW846 8270C	8040196
4-Nitroaniline	ND		mg/kg	0 267	0.810	1	04/02/08 13:53	SW846 8270C	8040196
Nitrobenzene	NO		mg/kg	0 103	0 324	ı	04/02/08 13:53	SW846 8270C	8040196
4-Nitrophenol	ND		mg/kg	0 268	0 810	1	04/02/08 13:53	SW846 8270C	8040196
2-Nitrophenol	מא		mg/kg	0 191	0 324	1	04/02/08 13:53	SW846 8270C	8040196
N-Nitrosodiphenylamine	ND		mg/kg	0 106	0 324	1	04/02/08 13:53	SW846 8270C	8040196
N-Nitrosodi-n-propylamine	ND		mg/kg	0119	0 324	i	04/02/08 13:53	SW846 8270C	8040196
Pentachlorophenol	ФИ		mg/kg	0 0719	0 810	1	04/02/08 13:53	SW846 8270C	8040196
Phonanthrene	ND		mg/kg	0 0330	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Pheno!	ND		mg/kg	0 0671	0 324	1	04/02/08 13:53	SW846 8270C	8040196
Pyrene	ND §		mg/kg	0 0398	0 324	1	04/02/08 13:53	SW846 8270C	8040196
1.2.4-Trichtembenzene	ND 🤹	*	mg/kg	0 108	0 324	Į	04/02/08 13:53	SW846 8270C	8040196
f-Methylnaphthalene	0.0336	<b>(</b> )	mg/kg	0 03 I I	0 324	1	04/02/08 13:53	SW846 8270C	8040196
2 4 6-Trichlorophenol	ND V	-	mg/kg	0 0845	0 324	1	04/02/08 13:53	SW846 8270C	8040196
2 4 5-Trichlorophenol	ND $V$		mg/kg	0 0661	0.810	1	04/02/08 13:53	SW846 8270C	8040196
Sur Terphenyl-d14 (26-128%)	64 %					j	04/02/08 13:53	SW846 8270C	8040196
Suri ? 46-Tribromophenol (20-132%)	72 %					,	04/02/08 13 53	SW846 8270C	8040196
Suri Phenol-ds (23-113%)	67%					,	04/02/08 13 53	SW846 8270C	8040196
Sur 2-FIvorobiphenyl (19-109%)	54 %					•	04/02/08 13:53	SW840 8270C	8040196
Surr 2-Fluorophenol (19-105%)	61%					1	04/02/08 13 53	SW846 8279C	8040196
Surr. Nitrobenzene-d3 (22-194%)	61%					,	04/02/08 13 53	SW846 8270C	8040196
Extractable Petroleum Hydrocarbons						•	V (		
Extractable Petroleum Hydrocarbons (EPH)	15.1		mg/kg	3 83	3 95	J	04/02/08 10:14	IDHE	8040198
Suri o-Terphenyl (50-150%)	78 %		<b></b>				04/02/08 [0 14	TDHE	8040198
Purgeable Petroleum Hydrocarbons		Δ.							
GRO (C6-C10) TN	ND 🖢	Ĭ	mg/kg	0 372	3 72	50	04/02/08 11:58	TN GRO 1 DEC	8040218
Surr u u u-Ti ifluorotoluene (32-145%)	77 %					50	04/02/08 11 58	TN GRO TDEC	8040218

OULOSI LOS



2960 Foster Creighton Road Nashville TN 37204 " 800-765-0980 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth GA 30096

Atm Jessica Vickers

Work Order:

NRD0081

Project Name:

Oliver Springs Oil Well ER

Project Number: Received: Oliver Springs Oil Well ER 04/01/08 17:30

100001701

			ANALY	TICAL REPO	ORT				
Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD0081- Total Metals by EPA Met	02 (SF-04 (1381 Cove Ln thod 6010B	) - Soil) !	Sampled:	04/01/08 13:	:26				
Aluminum	21600		mg/kg	5 56	101	1	04/02/08 13:39	SW846 6010B	8040230
Antimony	ND 🗸		mg/kg	141	101	1	04/02/08 13:39	SW846 6010B	8040230
Assenic	4.61		mg/kg	0 909	10}	1	04/02/08 13:39	SW846 6010B	8040230
Berium	92.6 🏋		mg/kg	0.505	2 02	1	04/02/08 13:39	SW846 6010B	8040230
Beryllium	0.545	<b>(1)</b>	mg/kg	0 303	101	1	04/02/08 13:39	SW846 6010B	8040230
Cadmium	1.07	Section .	mg/kg	0.202	101	1	04/02/08 13:39	SW846 6010B	8040230
Calcium	386 📆		mg/kg	3 03	101	1	04/02/08 13.39	SW846 6010B	8040230
Chromium	18.5		mg/kg	0 404	101	ı	04/02/08 13:39	SW846 6010B	8040230
Cobalt	9 27		mg/kg	0 808	101	i	04/02/08 13:39	SW846 6010B	8040230
Copper	5.72		mg/kg	0 707	2 02	i	04/02/08 13:39	SW846 6010B	8040230
Iron	14100		mg/kg	8 59	101	1	04/02/08 13:39	SW846 6010B	8040230
Lead	11.4		mg/kg	0 505	101	•	04/02/08 13:39	SW846 6010B	8040230
Magnesium	1200		mg/kg	4 55	101	,		SW846 6010B	8040230
Manganese	294		mg/kg	0 303	101	1	04/02/08 13:39	SW846 6010B	8040230
Nickel	8.14			0 505	101	1	04/02/08 13:39	SW846 6010B	
Potassium	2200 📆 "		mg/kg	30.3	101	1	04/02/08 13:39		8040230
Selenium	2.62	R	mg/kg	111	2 02	1	04/02/08 13:39	SW846 6010B	8040230
Silver	ND U		mg/kg	0.505		l	04/02/08 13:39	SW846 6010B	8040230
Sodium	186	Ø	mg/kg		101	-	04/02/08 13:39	SW846 6010B	8040230
Jhallium	ND <b>U</b> J	3	mg/kg	101	202 2 02	1	04/02/08 13:39	SW846 6010B	8040230
Vanadium	33.8		mg/kg	1 92		1	04/02/08 13:39	SW846 6010B	8040230
Vanacoum Zinc	33.5 41.3		mg/kg	111	101	1	04/02/08 13:39	SW846 6010B	8040230
			nig/kg	3 33	10 1	1	04/02/08 13:39	SW846 6010B	8040230
Mercury by EPA Methods Mercury	6.0481 0.0481	0	nu nu Gen	0 0292	0 0974	1	0400000000	CILIDAE TATLA	0040777
		0.00	mg/kg	0 0292	0 0974	1	04/02/08 10:24	SW8467471A	\$040222
	nds by EPA Method 8260B								
Acctone	140 K	_	mg/kg	0 0238	0 0475	1	04/01/08 19:30	SW846 8260B	8040197
Benzene	ND 🕻	7	mg/kg	0 000637	0 00190	Į.	04/01/08 19.30	SW846 8260B	8040197
Bromobenzene	מא		mg/kg	0 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
Bromochloramethanc	ND		mg/kg	0 000637	0.00190	ŧ	04/01/08 19:30	SW846 8260B	8040197
Bromodichloromethane	ND		mg/kg	0 000637	0 00190	į	04/01/08 19:30	SW846 8260B	8040197
Bromoform	ND		mg/kg	0 000504	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
Bromomethane	ND		mg/kg	0 00149	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
2-Butasone	NO.		mg/kg	0 00475	0 0475	ļ	04/01/08 19:30	SW846 8260B	8040197
sec-Butylbenzene	ND		mg/kg	0 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
n-Butylbenzene	ND		mg/kg	0 000637	0 00190	i	04/01/08 19:30	SW846 8260B	8040197
ert-Butylbenzene	אס י		mg/kg	0 000637	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
Carbon disulfide	ND.		mg/kg	0 000637	0 00475	ŧ	04/01/08 19:30	SW846 8260B	8040197
Carbon Tetrachloride	ИD	nfrantikan	mg/kg	0 000637	0 00190	l	04/01/08 19:30	SW846 8260B	8040197
Chlorobenzene	ND		mg/kg	0 000637	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
Chlorodibromonethane	ND		mg/kg	0.000637	0 00190	i	04/01/08 19:30	SW846 8260B	8040197
Cirloroethane	ND	/	mg/kg	0.000637	0 00475	i	04/01/08 19:30	5W846 8260B	8040197
Chloroform	ODONO-000884 ()	ng malle	mg/kg	0 000637	0.00190	ì	04/01/08 19:30	SW846 82608	8040197
Chioromethane	ND U	-	mg/kg	0 000837	0 00190	í	04/01/08 19:30	SW846 8260B	8040197
			1.1.6/ FB			•	0-40110a 12.30	~ · · · · · · · · · · · · · · · · · · ·	UU-1V(7/





2960 Foster Creighton Road Neshville TN 37204 \* 800-765-0980 \* Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd., Building 200, Suite 300

Duiuth GA 30096

Atm Jessica Vickers

Work Order:

NRD0081

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

04/01/08 17:30

13311	5/7	14.65	REPORT	
ANAI	. Y 1	IL A.	RIPERE	

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD0081-02	(SF-04 (1381 Cove Ln)	- Soil) - c	ont. San	pled: 04/01	/08 13:26				
Volatile Organic Compounds	by EPA Method 8260B	- cont							
2-Chlorotoluene	ND U		mg/kg	0 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
4-Chlorotoluene	ND		mg/kg	9 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
1 2-Dibromo-3-chloropropane	ND		mg/kg	0 000951	0.00475	1	04/01/08 19:30	SW846 8260B	8040197
1 2-Dibromoethane (EDB)	ND		mg/kg	0 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
Dibromomethane	ND		mg/kg	0 000513	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
4-Dichlorobenzene	ND		mg/kg	0 000608	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
3-Dichlorobenzene	ND		mg/kg	0 000504	0 00 190	1	04/01/08 19:30	SW846 8260B	8040197
[ 2-Dichlorobenzene	DM		mg/kg	0 000637	0 00 190	1	04/01/08 19:30	SW846 8260B	8040197
Dichlorodifluoromethane	ND		mg/kg	0 000884	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
1.1-Dichloroethane	ND		mg/kg	0 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
2-Dichloroethane	ND		mg/kg	0 000760	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
cis-1 2-Dichioroethene	ND		mg/kg	0 000637	0 00190	1	04/01/08 19:30	SW846 B260B	8040197
1 1-Dichloroethene	ND		mg/kg	0 000637	0.00190	ı	04/01/08 19:30	SW846 8260B	8040197
trans-1 2-Dichioroethene	ND		mg/kg	0 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
1 3-Dichloropropane	ND		mg/kg	0 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
1 2-Dichloropropane	ND		mg/kg	0 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
2.2-Dichleropropane	סא		mg/kg	0 000399	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
cis-1 3-Dichloropropene	ND		mg/kg	0 000637	0 00190	í	04/01/08 19:30	SW846 8260B	8040197
trans-1 3-Dichlaropropene	ND		mg/kg	0 000637	0.00190	i	04/01/08 19:30	SW846 8260B	8040197
1 1-Dichloropropene	ND		mg/kg	0.000637	0.00190	1	04/01/08 (9:30	SW846 8260B	8040197
Ethylbenzene	ND		mg/kg	0 000637	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
Hexachlorobutadiene	ND		mg/kg	0 000599	0 00475	1	04/01/08 19:30	SW846 8260B	8040197
2-1-lexanone	ND +	Carrie Marie	mg/kg	0 00387	0 0475	i	04/01/08 19:30	SW846 8260B	8040197
	ND		mg/kg	0 000637	0 00190		04/01/08 19:30	SW846 8260B	8040197
isapropyibanzene	ND .		mg/kg	0 000637	0.00190	i	04/01/08 19:30	SW846 8260B	8040197
p-Isopropyltoluene	ND V		mg/kg	0 000637	0.00190	•	04/01/08 19:30	SW846 8260B	8040197
Methyl tert-Butyl Ether	0.0075 ( e.00550 ( )	-Julla		0 00331	0 00951	•	04/01/08 19:30	SW846 8260B	8040197
Methylene Chloride	ND the		mg/kg	0.00405	0 0475	i	04/01/08 19:30	SW846 8260B	8040197
4-Methyl-2-pentanone	ND CAS		mg/kg	0.00144	0 00475	1	04/01/08 19:30	SW846 8260B	8040197
Naphthalene			mg/kg	0 000504	0 00190	ì	04/01/08 19:30	SW846 8260B	8040197
n-Propyibenzone	ND	į.	mg/kg	0 000537	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
Styrene	ND ND	SECTION AND ADDRESS.	mg/kg	0 000037	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
1 1.1.2-1etrachloroethane		e de la companya de l	mg/kg	0 000473	0 00190	ì	04/01/08 19:30	SW846 8260B	8040197
1 1 2 2-Tetrachloroethane	ND	I Bear	mg/kg	0 000637	0 00190	i	04/01/08 19:30	SW846 8260B	8040197
Tetrachloroethene	ND	*25	mg/kg	0 000637	0 00190	1		SW846 8260B	8040197
1 oluene	ND		mg/kg		0.00190	1	04/01/08 19:30	SW846 8260B	8040197
1 2 3-Frichlorobenzenc	ND		mg/kg	0 000627	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
i 2,4-Trichlorobenzene	ND		mg/kg	0.000618		•	04/01/08 19:30		8040197
1 i 2-Trichloroethane	ND	Green.	mg/kg	0 000970	0.00475	<b>1</b>	04/01/08 19:30	SW846 8260B SW846 8260B	8040197
1 1  -Trichlorocthane	ND	MCC2M	mg/kg	0 000637	0.00190	ł Ł	04/01/08 19:30	SW846 8260B	8040197
frichloroethene	ND		mg/kg	0 000266	0.00190		04/01/08 19:30		8040197
1 richlerofluoromethane	ИD		mg/kg	0 000637	0 00190	1	04/01/08 19:30	SW846 8260B	
1 2 3-1 richloropropane	ND	estato de la constanta de la c	mg/kg	0 000523	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
1 3 5-Trimethy/benzene	ND	District of the second	mg/kg	0 000637	0 00190	1	04/01/08 19:30	SW846 8260B	8040197
1.2 4-Trimethylbenzene	ND		mg/kg	0 00121	0.00190	1	04/01/08 19:30	SW846 8260B	8040197
Vinyl chloride	ND		mg/kg	0 000675	0.00190	1	04/01/08 19:30	SW846 8260B	8040197





2960 Foster Creighton Road Nashville TN 37204 " 800-765-0980 " Fax 815-728-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd , Building 200, Suite 300

Duluth GA 30096

Attn Jessica Vickers

Work Order:

NRD0081

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

04/01/08 17:30

#### ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/I ime	Method	Batch
Sample ID: NRD0081-02 (SF-04 (13	381 Cove Lr	1) - Svil)	- cont. San	pled: 04/01	/08 13:26			,	
Volatile Organic Compounds by EPA M									
Xylones, total	ND U		mg/kg	0.00163	0 00475	ł	04/01/08 19:30	SW846 8260B	8040197
Surr 12-Dichloroethane-d4 (41-150%)	96 %						04/01/08 19:30	SW846 8260B	8040197
Surr Dibroniofluoromethane (55-139%)	109 %					1			8040197
Surr Toluene-d8 (57-148%)	114%					I	04/01/08 19.30	SW846 8260B	
Suri 4-Bromofluorobenzene (58-150%)	11596					1	04/01/08 19 30	SW846 8260B SW846 8260B	8040197 8040197
Semivolatile Organic Compounds by EF		700				I	U4/U1/U8 19 3U	317 040 02000	0040157
Accomplished	ND U	,,,,,		0 0307	0 330	1	O i imp to a later	011/04/ 55000	80.40104
Acenaphthylene	ND 1		mg∕kg mg⁄kg	0 0307	0 330	I	04/02/08 14:16	SW846 8270C SW846 8270C	8040196 8040196
Anthracene	ND			0 0327	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Benzo (a) anthracene	ND		mg/kg mg/kg	0 0376	0 330	i I	04/02/08 14:16 04/02/08 14:16	SW846 8270C	8040196
Benzo (a) pyrene	ND		mg/kg	0 0287	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Benzo (b) fluoranthene	ND		mg/kg	0 0217	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Benzo (g h,i) perylene	ND		mg/kg	0 0287	0 330	i I		SW846 8270C	8040196
Benzo (k) fluoranthene	ND		mg/kg	0 0287	0 330	1	04/02/08 14:16 04/02/08 14:16	SW846 8270C	8040196
4-Bromophenyl phenyl ether	ND I		mg/kg	0 110	0 330	i	04/02/08 [4:16	SW846 8270C	8040196
Bittyl benzyl phthalate	ND		mg/kg	18800	0 330	ì	04/02/08 14:16	SW846 8270C	8040196
Carbazole	ND		mg/kg	0 163	0 330		04/02/08 14:16	SW846 8270C	8040196
I-Chloro-3-methylphenol	ND		mg/kg	0 0990	0 330	i	04/02/08 14:16	SW846 8270C	8040196
4-Chloroanitine	ND		mg/kg	0 286	0 330	i i	04/02/08 14:16	SW846 8270C	8040196
Bis(2-chloroethoxy)methane	ND		mg/kg	0 110	0 330	)	04/02/08 14:16	SW846 8270C	8040196
Bis(2-chloroethyl)ether	ND		mg/kg	0 134	0 330	i	04/02/08 14:16	SW846 8270C	8040196
Bis(2-chloroisopropyl)ether	ND		mg/kg	0 101	0 330	1	04/02/08 14:16	SW846 8270C	8040196
2-Chloronaphthalene	ND		mg/kg	0.0673	0 330	i	04/02/08 14:16	SW846 8270C	8040196
2-Chlorophenol	ND		mg/kg	0 108	0 330	ì	04/02/08 14:16	SW846 8270C	8040196
4-Chlorophenyl phenyl ether	ND		mg/kg	0110	0 330	ì	04/02/08 14:16	SW846 8270C	8040196
Chrysene	ND		mg/kg	0.0386	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Dibenz (a h) anthracene	ND		mg/kg	0 0307	0 330	i	04/02/08 14:16	SW846 8270C	8040196
Dibenzofuran	ИВ		mg/kg	0 0881	0 330	i	04/02/08 14:16	SW846 8270C	8040196
Di-n-butyl phthalate	ND		mg/kg	0 0851	0 330		04/02/08 14:16	SW846 8270C	8040196
1 ‡-Dichlorobenzene	ND		mg/kg	0114	0 330	i	04/02/08 14:16	SW846 8270C	8040196
1 2-Dichforobenzene	ND		mg/kg	0 0871	0 330	1	04/02/08 14:16	SW846 8270C	8040196
1 3-Dichtorobenzene	ND		mg/kg	0 0792	0 330		04/02/08 14:16	SW846 8270C	8040196
3 3-Dichlorobenzidine	ND		mg/kg	0 267	0 660	i	04/02/08 14:16	SW846 8270C	8040196
2 4-Dichlorophenol	ND		mg/kg	0.0861	0 330	í	04/02/08 14:16	SW846 8270C	8040196
Diethyl phthalate	ND		mg/kg	0 0495	0 330	i	04/02/08 14:16	SW846 8270C	8040196
2 4-Dimethylphenol	מא		mg/kg	0 278	0 330	i	04/02/08 14:16	SW846 8270C	8040196
Dimethyl phthalate	ND		mg/kg	0 0871	0 330	i	04/02/08 14 16	SW846 8270C	8040196
4.6-Dinitro-2-methylphenol	ND		mg/kg	0 0901	0 825	,	04/02/08 14:16	SW846 8270C	8040196
2 4-Dinitrophenol	ND		mg/kg	0134	0 825	,	04/02/08 14:16	SW846 8270C	8040196
2 6-Dinitrotaluene	ND		mg/kg	0110	0 330		04/02/08 14:16	SW846 8270C	8040196
2.4-Dinitrotoluene	ND		mg/kg	0 0871	0 330	ì	04/02/08 14:16	SW846 8270C	8040196
Di-n-octyl phthalate	ND		mg/kg	0 131	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Bis(2-ethylhexyl)phthalate	ND 🎶		mg/kg	0110	0 330	•	04/02/08 14:16	SW846 8270C	8040196





2980 Foster Creighton Road Nashville: TN 37284 " 800-765-9980 " Fex 615-726-3404

Client Tetra Tech EMf (7797)

1955 Evergreen Blvd , Building 200 Suite 300

Duluth GA 30096

Attn Jessica Vickers

Work Order:

NRD0081

Project Name: Project Number: Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Received:

04/01/08 17:30

						Dilution	Analysis		
Analyte	Result	Flag	Units	MDL	MRL	Factor	Date/Time	Method	Batch
Sample ID: NRD0081-02 (SF-04 (138	1 Cove L	n) - Seil)	- cont. Sam	pled: 04/01	/08 13:26				
Semivolatile Organic Compounds by EPA									
Fluoranthene	ND L	)	mg/kg	0 0337	0 330	ţ	04/02/08 14:16	SW846 8270C	8040196
Fluorene	ND I		mg/kg	0 0386	0 330	ł	04/02/08 14:16	SW846 8270C	8040196
Hexachiorobenzene	ND		mg/kg	0 0822	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Hexachlorobutadiene	ND		mg/kg	0 107	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Hexachlerocyclopentadiene	ND		mg/kg	0 110	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Flexachloroethane	ND		mg/kg	0 104	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Indeno (1.2 3-cd) pyrene	ND		mg/kg	0 0307	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Isophorone	ND		mg/kg	0 0990	0 330	1	04/02/08 14:16	SW846 8270C	8040196
2-Methylnaphthaiene	ND	_	mg/kg	0 0327	0 330	ì	04/02/08 14:16	SW846 8270C	8040196
2-Methylphenol	ND V	'	mg/kg	0 0980	0 330	<b>;</b>	04/02/08 14:16	SW846 8270C	8040196
3/4-Methylphenol	ND UT	\$	mg/kg	0 144	0 330	1	04/02/08 14:16	SW846 8270C	8040196
Naphthalene	ND L		mg/kg	0 0406	0.330	1	04/02/08 14:16	SW846 8270C	8040196
3-Nitroaniline	ND T		mg/kg	0 109	0 825	1	04/02/08 14:16	SW846 8270C	8040196
2-Nitrosniline	ND		mg/kg	0 110	0.825	J	04/02/08 14:16	SW846 8270C	8040196
4-Nitroaniline	DN		mg/kg	0 272	0 825	1	04/02/08 14:16	SW846 8270C	8040196
Nitrobenzene	ND		mg/kg	0 105	0.330	1	04/02/08 14:16	SW846 8270C	8040196
4-Nitrophenol	ND		mg/kg	0 273	0 825	ı	04/02/08 14:16	SW846 8270C	8040196
2-Nitrophenol	ND €		mg/kg	0 195	0 330	1	04/02/08 14:16	SW846 8270C	8040196
N-Nitrosodiphenylamine	ND		mg/kg	8010	0 330	1	04/02/08 14:16	SW846 8270C	8040196
N-Nitrosodi-n-propylamine	DN		mg/kg	0 121	0 330	l	04/02/08 14:16	SW846 8270C	8040196
Pentachlorophenol	ND		mg/kg	0 0733	0 825	ţ	04/02/08 14:16	SW846 8270C	8040196
Phenanthrene	ND		mg/kg	0 0337	0.330	1	04/02/08 14:16	SW846 8270C	8040196
Phenoi	ND		mg/kg	0 0683	0 330	1	04/02/08 14:16	SW845 8270C	8040196
Pyrene	DN		mg/kg	0 0406	0.330	ì	04/02/08 14:16	SW846 8270C	8040196
1.2 4-Trichlorobenzene	מא		mg/kg	0 110	0.330	1	04/02/08 14:16	SW846 8270C	8040196
1-Methylnaphthalene	ND by	Carle Constant	mg/kg	0 0317	0 330	1	04/02/08 14:16	SW846 8270C	8040196
2 4 6-Trichlorophenol	ND \		mg/kg	0.0861	0 330	1	04/02/08 14:16	SW846 8270C	8040196
2 4 5-Trichlorophenol	do da	/	mg/kg	0.0673	0 825	1	04/02/08 14:16	SW846 8270C	8040196
Suri Terphenyl-d14 (26-128%)	62 %					1	04/02/08 14 16	SW846 8270C	8040396
Surr 2 4 6-Tribromophenol (20-132%)	73 %					=	04/02/08 14:16	SW846 8270C	804019
						1	•		804019
Sur Phenol-d5 (23-113%)	78 %					1	04/02/08 14 16	SW846 8270C	
Surr 2-Fhiorobiphenyl (19-109%)	52 %					1	04/02/08 14.16	SW846 8270C	804019
Suri 2-Fluorophenol (19-105%)	75 %					1	04/02/08 14 16	SIV846 8270C	8040/90
Surr Nitrobenzene-d5 (22-104%)	69 %					1	04/02/08 [4:16	SW846 8270C	8040190
Extractable Petroleum Hydrocarbons									
Extractable Petroleum Hydrocarbons (EPH)	26.1		mg/kg	3 84	3 96	5	04/02/08 10:34	IDHE	8040198
Surr a-Terphenyl (50-150%)	70 %					1	04/02/08 10 34	TDHE	8040198
Purgeable Petroleum Hydrocarbons		_							
GRO (C6-C10) IN	ND (	)	mg/kg	0 438	4 38	50	04/02/08 12:30	IN GRO IDEC	8040218
Smr. a a a-Trifhiorotoliene (52-145%)	78 %		•			50	04/02/08 12 30	TN GRO TDEC	8040218





2960 Foster Creighton Road Nashville TN 37204 \* 800-765-0980 \* Fax 815-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blyd Building 200, Suite 300

Duluth GA 30096

Artn Jessica Vickers

Work Order:

NRD0081

Project Name: Project Number: Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Received:

04/01/08 17:30

#### ANALYTICAL REPORT

	-	***	Fimita	MDL	MRL	Dilution Factor	Analysis Date/Time	Mothad	Batch
Analyte	Result	Flag	Units	WIDE		ractor	Date/Time	Method	Batten
Sample ID: NRD0081-03 (TS-01 - S	oil) Sample	d: 04/01.	/08 14:00						
Volatile Organic Compounds by EPA N									
Acetone	ND R	<b>.</b>	mg/kg	0 0231	0.0463	1	04/01/08 19:59	SW846 8260B	8040197
Benzene	ND	· U	mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Bromobenzene	ND	4	mg/kg	0 000620	0.00185	I	04/01/08 19:59	SW846 8260B	8040197
Bromochloromethane	ND	94500	mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Bromodichloromethane	ND		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Bromeform	NĐ	200	mg/kg	0 000491	0 00185	t	04/01/08 19:59	SW846 8260B	8040197
Bromomethane	ND _	a l	mg/kg	0 00145	0 00185	I	04/01/08 19:59	SW846 8260B	8040197
2-Butanone	\$4D⊶ <b>%</b>	<i>[ ]</i>	mg/kg	0 00463	0 0463	Į	04/01/08 19:59	SW846 8260B	8040197
sec-Butylbenzene	ΝЪ		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
n-Butytbenzene	ND		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8250B	8040197
tert-Butylbenzene	ND		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Carbon disulfide	ND		mg/kg	0 000620	0 00463	I	04/01/08 19:59	SW846 8260B	8040197
Carbon Tetrachloride	ND	4.2.	mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Chlorobenzene	ND		mg/kg	0 000620	0 00185	i	04/01/08 19:59	SW846 8260B	8040197
Chlorodibromomethane	ďИ	.la	mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Chlorosthane	ПD	Serv.	mg/kg	0 000620	0 00463	1	04/01/08 19:59	SW846 8260B	8040197
Chloroform	0.000796	O,	mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Chloromethane	ND 💟	,	mg/kg	0.000815	0 00185	1	04/01/08 19:59	SW845 8250B	8040197
2-Chlorotoluene	ND		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
4-Chiorotoluene	ND		mg/kg	0 000620	0 00185	1	04/01/08 19;59	SW846 8260B	8040197
1 2-Dibromu-3-chloropropane	ND [		mg/kg	0 000926	0 00463	1	04/01/08 19:59	SW846 8260B	8040197
1.2-Dibromoethane (EDB)	ND		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Oibromomethane	ND		mg/kg	0 000500	0.00185	I	04/01/08 19:59	SW846 8260B	8040197
1 4-Dichlorobenzena	ND		mg/kg	0 000593	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
3-Dichtorobenzene	ND		mg/kg	0 000491	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
1 2-Dichlarobenzene	ND I		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Dichlorodifluoromethane	ND I		mg/kg	0 000861	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
11-Dichloroethanc	ND		mg/kg	0 000620	0.00185	1 4	04/01/08 19:59	SW846 8260B	8040197 8040197
1.2-Dichloroethane	ND		mg/kg	0 000741	0.00185		04/01/08 19:59	SW846 8260B SW846 8260B	8040197
cis-1.2-Dichlornethene	ND		mg/kg	0 000620 0 000620	0 00185 0 00185	) 1	04/01/08 19:59	SW846 8260B	8040197
1 I-Dichloroethene	ND		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
trans-1 2-Dichloroethene	ND DN		mg/kg	0 000620	0.00185	i	04/01/08 19:59 04/01/08 19:59	SW846 8260B	8040197
1 3-Dichloropropane	ND		mg/kg	0 000620	0.00185	1	04/01/08 19:59	5W846 8260B	8040197
1,2-Dichloropropane	ND D		mg/kg	0 000389	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
2.2-Dichloropropane cis-1 3-Dichloropropene	ND I		mg/kg	0 000620	0.00185	i	04/01/08 19:59	SW846 8260B	8040197
trans-1.3-Dichloropropene	ND		mg/kg mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260Đ	8040197
1 1-Dichloropropene	ND I		mg/kg	0 000620	0 00185	i	04/01/08 19:59	SW846 8260B	8040197
Ethylbenzene	ND 8		mg/kg	0 000620	0.00185	i	04/01/08 19:59	SW846 8260B	8040197
Hexachlorobutadiene				0 000583	0 00463	i	04/01/08 19:59	SW846 8260B	8040197
2-Нехалоне	ND A	Constant Constant	mg/kg mg/kg	0 00377	0.0463		04/01/08 19:59	SW846 8260B	8040197
Isopropylbenzene	ND		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
p-(sopropy)toluene	ON		mg/kg mg/kg	0 000620	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
Methyl tert-Butyl Ether	ND 🖠	i	mg/kg	0 000620	0.00185	i	04/01/08 19:59	SW846 8260B	8040197
Methylene Chloride	0.00466	Ó	mg/kg	0 00322	0 00926	ì	04/01/08 19:59	SW846 8260B	8040197
Monthello Cinoride	0100400	المورسية	(())	A 20225	V 7-7-110	•	5-110 (100) 19,29	2-1010 02000	20.017





2950 Foster Creighton Road Nashville "TN 37264" 800-765-9980 " Fax 615-726-3404

Client Tetra Tech EMI (7797)

1955 Evergreen Blvd Building 200 Suite 300

Oututh GA 30096 Attn

Jessica Vickers

Work Order;

NRD008L

Project Name:

Oliver Springs Oil Well ER Oliver Springs Oil Well ER

Project Number: Received:

04/01/08 17:30

#### ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD0081-03 (IS-01 -	Soil) - cont.	Sampled:	04/01/08	14:00					
Volatile Organic Compounds by EPA	Method 8260B	- cont							
4-Methyl-2-pentanone	DV DN	el)	mg/kg	0 00394	0.0463	ŧ	04/01/08 19:59	SW846 8260B	8040197
Naghthalene	ND		mg/kg	0.00140	0 00463	t	04/01/08 19:59	SW846 8260B	8040197
n-Propylbenzene	ND		mg/kg	0 000491	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
Styrene	ND	4	mg/kg	0 000620	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
1   1 2-Tetrachloroethane	ND		mg/kg	0 000463	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
1.2.2-Tetrachloroethane	ND	i i	mg/kg	0 000620	0.00185	ŧ	04/01/08 19:59	SW846 8260B	8040197
Letruchioroethene	ND	and the same	mg/kg	0 000620	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
Toluene	ND		mg/kg	0 000620	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
1 2 3-1 richlorobenzene	ND		mg/kg	0.000611	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
1 2 4-Trichlorobenzene	ND	and the same of th	mg/kg	0.000602	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
1 i 2-Trichloroethane	ИD		mg/kg	0 000944	0 00463	1	04/01/08 19:59	SW846 8260B	8040197
1 (1-Trichloroethane	ND	S S S S S S S S S S S S S S S S S S S	mg/kg	0.000520	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
Trichloroethene	ND		mg/kg	0 000259	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
Trichlorofluorora@hane	ND		mg/kg	0 000620	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
1 2 3-Trichloropropane	ND	1	mg/kg	0 000509	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
1 3 5-Trimethy/benzene	ND		mg/kg	0 000620	0.00185	1	04/01/08 19:59	SW846 8260B	8040197
1,2.4-Trimethylbenzene	ND	College Colleg	mg/kg	0.00118	0 00185	1	04/01/08 19:59	SW846 8260B	8040197
Vinyl chloride	ND		mg/kg	0 000657	0.00185	į	04/01/08 19:59	SW846 8260B	8040197
Xylenes, total	ND	V	mg/kg	0.00159	0 00463	1	04/01/08 19:59	SW846 8260B	8040197
Surr 12-Dichtoroethane-d4 (41-150%)	94%	•				t	04/01/08 19 59	SW846 8260B	8040197
Surr Dibromoftuoromethane (55-139%)	108 %					1	04/01/08 19 59	SW846 8260B	8040197
Surr Toluene-d8 (57-148%)	113%					1	04/01/08 19 59	SW846 8260B	8040197
Surr 4-Bromofhiorobenzene (58-150%)	109 %					1	04/01/08 19 59	S#¥846 8260B	8040197

#### **ENCLOSURE 2**

# DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS FOR TESTAMERICA ANALYTICAL TESTING CORPORATION REPORTS NO. NRC2505 AND NRD0081

(Ten Pages)



Sample Designation:	SF-01	SF-02	SF-02 Dup	VG-01	VG-02
Sample Collection Date:	3/28/2008	3/28/2008	3/28/2008	3/28/2008	3/28/2008
Description:			Field Duplicate		
Volatile Organic Compounds (mg/kg, dry weig	ght)				
1,1,1,2-Tetrachloroethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,1,1-Trichloroethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,1,2,2-Tetrachloroethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,1,2-Trichloroethane	0.473 U	0.259 U	0.286 U	3.76 U	4.25 U
1,1-Dichloroethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,1-Dichloroethene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,1-Dichloropropene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,2,3-Trichlorobenzene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,2,3-Trichloropropane	0.189 UJ	0.103 UJ	0.115 UJ	1.50 U	1.70 U
1,2,4-Trichlorobenzene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,2,4-Trimethylbenzene	5.62	0.103 U	0.115 U	16.0	1.21 J
1,2-Dibromo-3-chloropropane	0.473 U	0.259 U	0.286 U	3.76 U	4.25 U
1,2-Dibromoethane (EDB)	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,2-Dichlorobenzene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,2-Dichloroethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,2-Dichloropropane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,3,5-Trimethylbenzene	2.34	0.103 U	0.115 U	6.40	1.70 U
1,3-Dichlorobenzene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,3-Dichloropropane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
1,4-Dichlorobenzene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
2,2-Dichloropropane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
2-Butanone	4.73 U	2.59 U	2.86 U	37.6 U	42.5 U
2-Chlorotoluene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
2-Hexanone	4.73 U	2.59 U	2.86 U	37.6 U	42.5 U
4-Chlorotoluene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
4-Methyl-2-pentanone	4.73 U	2.59 U	2.86 U	37.6 U	42.5 U
Acetone	R	R	R	R	R
Benzene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Bromobenzene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Bromochloromethane	0.189 UJ	0.103 UJ	0.115 UJ	1.50 UJ	1.70 UJ
Bromodichloromethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Bromoform	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Bromomethane	0.189 UJ	0.103 UJ	0.115 UJ	1.50 UJ	1.70 UJ



Sample Designation:	SF-01	SF-02	SF-02 Dup	VG-01	VG-02
Sample Collection Date:	3/28/2008	3/28/2008	3/28/2008	3/28/2008	3/28/2008
Description:			Field Duplicate		
Volatile Organic Compounds (mg/kg, d	ry weight) (cont'd)				
Carbon disulfide	0.473 U	0.259 U	0.286 U	3.76 U	4.25 U
Carbon Tetrachloride	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Chlorobenzene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Chlorodibromomethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Chloroethane	0.473 U	0.259 U	0.286 U	3.76 U	4.25 U
Chloroform	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Chloromethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
cis-1,2-Dichloroethene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
cis-1,3-Dichloropropene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Dibromomethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Dichlorodifluoromethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Ethylbenzene	0.274	0.103 U	0.115 U	1.50 U	1.70 U
Hexachlorobutadiene	0.473 U	0.259 U	0.286 U	3.76 U	4.25 U
Isopropylbenzene	0.312	0.103 U	0.115 U	1.50 U	1.70 U
Methyl tert-Butyl Ether	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Methylene Chloride	0.947 U	0.517 U	0.573 U	9.05	7.37 J
Naphthalene	1.71	0.259 U	0.286 U	6.96	2.05 J
n-Butylbenzene	1.00	0.103 U	0.115 U	2.74	1.70 U
n-Propylbenzene	0.726	0.103 U	0.115 U	1.44 J	1.70 U
p-Isopropyltoluene	0.383	0.103 U	0.115 U	1.01 J	1.70 U
sec-Butylbenzene	0.582	0.103 U	0.115 U	1.42 J	1.70 U
Styrene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
tert-Butylbenzene	0.0852 J	0.103 U	0.115 U	1.50 U	1.70 U
Tetrachloroethene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Toluene	0.161 J	0.103 U	0.115 U	0.925 J	1.70 U
trans-1,2-Dichloroethene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
trans-1,3-Dichloropropene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Trichloroethene	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Trichlorofluoromethane	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Vinyl chloride	0.189 U	0.103 U	0.115 U	1.50 U	1.70 U
Xylenes, total	4.28	0.259 U	0.286 U	9.29	4.25 U
Semivolatile Organic Compounds (mg/k	kg, dry weight)				
1,2,4-Trichlorobenzene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U



Sample Designation:	SF-01	SF-02	SF-02 Dup	VG-01	VG-02
Sample Collection Date:	3/28/2008	3/28/2008	3/28/2008	3/28/2008	3/28/2008
Description:			Field Duplicate		
Semivolatile Organic Compounds (mg/kg,	dry weight) (cont'd)				
1,2-Dichlorobenzene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
1,3-Dichlorobenzene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
1,4-Dichlorobenzene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
1-Methylnaphthalene	0.343 J	0.388 UJ	0.400 UJ	17.5 J	14.6 UJ
2,4,5-Trichlorophenol	1.18 U	0.970 U	1.00 U	32.3 U	36.5 U
2,4,6-Trichlorophenol	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
2,4-Dichlorophenol	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
2,4-Dimethylphenol	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
2,4-Dinitrophenol	1.18 U	0.970 U	1.00 U	32.3 U	36.5 U
2,4-Dinitrotoluene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
2,6-Dinitrotoluene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
2-Chloronaphthalene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
2-Chlorophenol	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
2-Methylnaphthalene	0.393 J	0.388 U	0.122 J	21.0	3.93 J
2-Methylphenol	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
2-Nitroaniline	1.18 U	0.970 U	1.00 U	32.3 U	36.5 U
2-Nitrophenol	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
3,3-Dichlorobenzidine	0.943 U	0.776 U	0.801 U	25.9 U	29.2 U
3/4-Methylphenol	0.471 UJ	0.388 UJ	0.400 UJ	12.9 UJ	14.6 UJ
3-Nitroaniline	1.18 U	0.970 U	1.00 U	32.3 U	36.5 U
4,6-Dinitro-2-methylphenol	1.18 U	0.970 U	1.00 U	32.3 U	36.5 U
4-Bromophenyl phenyl ether	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
4-Chloro-3-methylphenol	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
4-Chloroaniline	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
4-Chlorophenyl phenyl ether	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
4-Nitroaniline	1.18 U	0.970 U	1.00 U	32.3 U	36.5 U
4-Nitrophenol	1.18 U	0.970 U	1.00 U	32.3 U	36.5 U
Acenaphthene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Acenaphthylene	0.137 J	0.388 U	0.400 U	9.56 J	14.6 U
Anthracene	0.471 U	0.388 U	0.400 U	2.60 J	1.72 J
Benzo (a) anthracene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Benzo (a) pyrene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Benzo (b) fluoranthene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U



Sample Designation:	SF-01	SF-02	SF-02 Dup	VG-01	VG-02
Sample Collection Date:	3/28/2008	3/28/2008	3/28/2008	3/28/2008	3/28/2008
Description:			Field Duplicate		
Semivolatile Organic Compounds (mg/kg, dr	y weight) (cont'd)				
Benzo (g,h,i) perylene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Benzo (k) fluoranthene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Bis(2-chloroethoxy)methane	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Bis(2-chloroethyl)ether	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Bis(2-chloroisopropyl)ether	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Bis(2-ethylhexyl)phthalate	0.471 U	3.89	5.15	6.51 J	295
Butyl benzyl phthalate	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Carbazole	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Chrysene	0.0641 J	0.388 U	0.0612 J	12.9 U	3.54 J
Dibenz (a,h) anthracene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Dibenzofuran	0.471 U	0.114 J	0.400 U	12.9 U	9.01 J
Diethyl phthalate	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Dimethyl phthalate	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Di-n-butyl phthalate	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Di-n-octyl phthalate	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Fluoranthene	0.0551 J	0.0477 J	0.0608 J	12.9 U	14.6 U
Fluorene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Hexachlorobenzene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Hexachlorobutadiene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Hexachlorocyclopentadiene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Hexachloroethane	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Indeno (1,2,3-cd) pyrene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Isophorone	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Naphthalene	0.202 J	0.388 U	0.400 U	8.96 J	14.6 U
Nitrobenzene	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
N-Nitrosodi-n-propylamine	0.471 UJ	0.388 UJ	0.400 UJ	12.9 UJ	14.6 UJ
N-Nitrosodiphenylamine	0.471 U	0.388 U	0.400 U	12.9 U	27.2
Pentachlorophenol	1.18 U	0.970 U	1.00 U	32.3 U	36.5 U
Phenanthrene	0.192 J	0.167 J	0.220 J	12.7 J	11.4 J
Phenol	0.471 U	0.388 U	0.400 U	12.9 U	14.6 U
Pyrene	0.0764 J	0.0504 J	0.0676 J	3.87 J	3.46 J
Gasoline Range Organics (GRO) (mg/kg, dry	weight)				
GRO (C6-C10) TN	64.6	1.65 J	3.59 J	608	173



Sample Designation:	SF-01	SF-02	SF-02 Dup	VG-01	VG-02
Sample Collection Date:	3/28/2008	3/28/2008	3/28/2008	3/28/2008	3/28/2008
Description:			Field Duplicate		
Extractable Petroleum Hydrocarbons (EPH) (n	ng/kg, dry weight)				
Extractable Petroleum Hydrocarbons (EPH)	3590	4460	4940	717000 J	612000 J
Metals (mg/kg, dry weight)					
Aluminum	17100	15500	18200	4740	3160
Antimony	13.8 U	11.9 U	12.0 U	14.8 U	17.2 U
Arsenic	1.98	3.12	2.16	1.48 U	1.72 U
Barium	75.7	69.3	80.7	88.2	56.9
Beryllium	0.441 J	1.19 U	0.385 J	1.48 U	1.72 U
Cadmium	1.21 J	1.57	1.06 J	0.504 J	0.378 J
Calcium	936	426	507	7410	5270
Chromium	16.2 J	33.5 J	18.1 J	5.34	4.54
Cobalt	3.28	3.21	3.68	1.48 U	1.72 U
Copper	5.87	4.86	4.50	36.5	12.6
Iron	14300	19800	12700	3860	3670
Lead	20.4	11.5	11.5	15.8	12.8
Magnesium	1040	993	1150	1090	1050
Manganese	314	161	186	124	153
Mercury	0.0555 J	0.105 J	0.0684 J	0.106 J	0.0654 J
Nickel	7.30	6.74	6.25	2.64	2.68
Potassium	1110	975 J	1770 J	2790	2420
Selenium	4.71	4.42	3.31	5.39	6.87
Silver	1.38 U	1.19 U	1.20 U	1.48 U	1.72 U
Sodium	156 J	165 J	131 J	305	265 J
Thallium	2.76 UJ	2.38 UJ	2.40 UJ	2.97 UJ	3.44 UJ
Vanadium	30.5	33.7	32.8	7.86 J	5.74 J
Zinc	46.3	34.8	35.3	50.3	60.0

#### Notes:

mg/kg = Milligrams per kilogram

- J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
- R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
- U = The analyte was analyzed for, but was not detected at or above the associated value.
- UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.



Sample Designation:	SF-03 (Backfill Source)	SF-04 (1381 Cove Ln)	TS-01
Sample Collection Date:	4/1/2008	4/1/2008	4/1/2008
Description:			Soil Trip Blank
Volatile Organic Compounds (mg/kg)			
1,1,1,2-Tetrachloroethane	0.00188 U	0.00190 U	0.00185 U
1,1,1-Trichloroethane	0.00188 U	0.00190 U	0.00185 U
1,1,2,2-Tetrachloroethane	0.00188 U	0.00190 U	0.00185 U
1,1,2-Trichloroethane	0.00469 U	0.00475 U	0.00463 U
1,1-Dichloroethane	0.00188 U	0.00190 U	0.00185 U
1,1-Dichloroethene	0.00188 U	0.00190 U	0.00185 U
1,1-Dichloropropene	0.00188 U	0.00190 U	0.00185 U
1,2,3-Trichlorobenzene	0.00188 U	0.00190 U	0.00185 U
1,2,3-Trichloropropane	0.00188 U	0.00190 U	0.00185 U
1,2,4-Trichlorobenzene	0.00188 U	0.00190 U	0.00185 U
1,2,4-Trimethylbenzene	0.00188 U	0.00190 U	0.00185 U
1,2-Dibromo-3-chloropropane	0.00469 U	0.00475 U	0.00463 U
1,2-Dibromoethane (EDB)	0.00188 U	0.00190 U	0.00185 U
1,2-Dichlorobenzene	0.00188 U	0.00190 U	0.00185 U
1,2-Dichloroethane	0.00188 U	0.00190 U	0.00185 U
1,2-Dichloropropane	0.00188 U	0.00190 U	0.00185 U
1,3,5-Trimethylbenzene	0.00188 U	0.00190 U	0.00185 U
1,3-Dichlorobenzene	0.00188 U	0.00190 U	0.00185 U
1,3-Dichloropropane	0.00188 U	0.00190 U	0.00185 U
1,4-Dichlorobenzene	0.00188 U	0.00190 U	0.00185 U
2,2-Dichloropropane	0.00188 U	0.00190 U	0.00185 U
2-Butanone	0.0469 U	0.0475 U	0.0463 U
2-Chlorotoluene	0.00188 U	0.00190 U	0.00185 U
2-Hexanone	0.0469 U	0.0475 U	0.0463 U
4-Chlorotoluene	0.00188 U	0.00190 U	0.00185 U
4-Methyl-2-pentanone	0.0469 U	0.0475 U	0.0463 U
Acetone	R	R	R
Benzene	0.00188 U	0.00190 U	0.00185 U
Bromobenzene	0.00188 U	0.00190 U	0.00185 U
Bromochloromethane	0.00188 U	0.00190 U	0.00185 U
Bromodichloromethane	0.00188 U	0.00190 U	0.00185 U
Bromoform	0.00188 U	0.00190 U	0.00185 U
Bromomethane	0.00188 U	0.00190 U	0.00185 U
Carbon disulfide	0.00469 U	0.00475 U	0.00463 U
Carbon Tetrachloride	0.00188 U	0.00190 U	0.00185 U
Chlorobenzene	0.00188 U	0.00190 U	0.00185 U
Chlorodibromomethane	0.00188 U	0.00190 U	0.00185 U
Chloroethane	0.00469 U	0.00475 U	0.00463 U
Chloroform	0.00188 U	0.00190 U	0.000796 J
Chloromethane	0.00188 U	0.00190 U	0.00185 U
cis-1,2-Dichloroethene	0.00188 U	0.00190 U	0.00185 U
cis-1,3-Dichloropropene	0.00188 U	0.00190 U	0.00185 U
Dibromomethane	0.00188 U	0.00190 U	0.00185 U
Dichlorodifluoromethane	0.00188 U	0.00190 U	0.00185 U
Ethylbenzene	0.00188 U	0.00190 U	0.00185 U
Hexachlorobutadiene	0.00469 U	0.00475 U	0.00463 U



Sample Designation:	SF-03 (Backfill Source)	SF-04 (1381 Cove Ln)	TS-01
Sample Collection Date:	4/1/2008	4/1/2008	4/1/2008
Description:			Soil Trip Blank
Volatile Organic Compounds (mg/kg) (cont'd	)		
Isopropylbenzene	0.00188 U	0.00190 U	0.00185 U
Methyl tert-Butyl Ether	0.00188 U	0.00190 U	0.00185 U
Methylene Chloride	0.00938 U	0.00951 U	0.00466 J
Naphthalene	0.00469 U	0.00475 U	0.00463 U
n-Butylbenzene	0.00188 U	0.00190 U	0.00185 U
n-Propylbenzene	0.00188 U	0.00190 U	0.00185 U
p-Isopropyltoluene	0.00188 U	0.00190 U	0.00185 U
sec-Butylbenzene	0.00188 U	0.00190 U	0.00185 U
Styrene	0.00188 U	0.00190 U	0.00185 U
tert-Butylbenzene	0.00188 U	0.00190 U	0.00185 U
Tetrachloroethene	0.00188 U	0.00190 U	0.00185 U
Toluene	0.00188 U	0.00190 U	0.00185 U
trans-1,2-Dichloroethene	0.00188 U	0.00190 U	0.00185 U
trans-1,3-Dichloropropene	0.00188 U	0.00190 U	0.00185 U
Trichloroethene	0.00188 U	0.00190 U	0.00185 U
Trichlorofluoromethane	0.00188 U	0.00190 U	0.00185 U
Vinyl chloride	0.00188 U	0.00190 U	0.00185 U
Xylenes, total	0.00469 U	0.00475 U	0.00463 U
Semivolatile Organic Compounds (mg/kg)			
1,2,4-Trichlorobenzene	0.324 U	0.330 U	NA
1,2-Dichlorobenzene	0.324 U	0.330 U	NA
1,3-Dichlorobenzene	0.324 U	0.330 U	NA
1,4-Dichlorobenzene	0.324 U	0.330 U	NA
1-Methylnaphthalene	0.0330 J	0.330 U	NA
2,4,5-Trichlorophenol	0.810 U	0.825 U	NA
2,4,6-Trichlorophenol	0.324 U	0.330 U	NA
2,4-Dichlorophenol	0.324 U	0.330 U	NA
2,4-Dimethylphenol	0.324 U	0.330 U	NA
2,4-Dinitrophenol	0.810 U	0.825 U	NA
2,4-Dinitrotoluene	0.324 U	0.330 U	NA
2,6-Dinitrotoluene	0.324 U	0.330 U	NA
2-Chloronaphthalene	0.324 U	0.330 U	NA
2-Chlorophenol	0.324 U	0.330 U	NA
2-Methylnaphthalene	0.324 U	0.330 U	NA
2-Methylphenol	0.324 U	0.330 U	NA
2-Nitroaniline	0.810 U	0.825 U	NA
2-Nitrophenol	0.324 U	0.330 U	NA
3,3-Dichlorobenzidine	0.648 U	0.660 U	NA
3/4-Methylphenol	0.324 UJ	0.330 UJ	NA
3-Nitroaniline	0.810 U	0.825 U	NA
4,6-Dinitro-2-methylphenol	0.810 U	0.825 U	NA
4-Bromophenyl phenyl ether	0.324 U	0.330 U	NA
4-Chloro-3-methylphenol	0.324 U	0.330 U	NA
4-Chloroaniline	0.324 U	0.330 U	NA
4-Chlorophenyl phenyl ether	0.324 U	0.330 U	NA
4-Nitroaniline	0.810 U	0.825 U	NA



Sample Designation:	SF-03 (Backfill Source)	SF-04 (1381 Cove Ln)	TS-01
Sample Collection Date:	4/1/2008	4/1/2008	4/1/2008
Description:			Soil Trip Blank
Semivolatile Organic Compounds (mg/kg) (	cont'd)		-
4-Nitrophenol	0.810 U	0.825 U	NA
Acenaphthene	0.324 U	0.330 U	NA
Acenaphthylene	0.324 U	0.330 U	NA
Anthracene	0.324 U	0.330 U	NA
Benzo (a) anthracene	0.324 U	0.330 U	NA
Benzo (a) pyrene	0.324 U	0.330 U	NA
Benzo (b) fluoranthene	0.324 U	0.330 U	NA
Benzo (g,h,i) perylene	0.324 U	0.330 U	NA
Benzo (k) fluoranthene	0.324 U	0.330 U	NA
Bis(2-chloroethoxy)methane	0.324 U	0.330 U	NA
Bis(2-chloroethyl)ether	0.324 U	0.330 U	NA
Bis(2-chloroisopropyl)ether	0.324 U	0.330 U	NA
Bis(2-ethylhexyl)phthalate	0.324 U	0.330 U	NA
Butyl benzyl phthalate	0.324 U	0.330 U	NA
Carbazole	0.324 U	0.330 U	NA
Chrysene	0.324 U	0.330 U	NA
Dibenz (a,h) anthracene	0.324 U	0.330 U	NA
Dibenzofuran	0.324 U	0.330 U	NA
Diethyl phthalate	0.324 U	0.330 U	NA
Dimethyl phthalate	0.324 U	0.330 U	NA
Di-n-butyl phthalate	0.324 U	0.330 U	NA
Di-n-octyl phthalate	0.324 U	0.330 U	NA
Fluoranthene	0.324 U	0.330 U	NA
Fluorene	0.324 U	0.330 U	NA
Hexachlorobenzene	0.324 U	0.330 U	NA
Hexachlorobutadiene	0.324 U	0.330 U	NA
Hexachlorocyclopentadiene	0.324 U	0.330 U	NA
Hexachloroethane	0.324 U	0.330 U	NA
Indeno (1,2,3-cd) pyrene	0.324 U	0.330 U	NA
Isophorone	0.324 U	0.330 U	NA
Naphthalene	0.324 U	0.330 U	NA
Nitrobenzene	0.324 U	0.330 U	NA
N-Nitrosodi-n-propylamine	0.324 U	0.330 U	NA
N-Nitrosodiphenylamine	0.324 U	0.330 U	NA
Pentachlorophenol	0.810 U	0.825 U	NA
Phenanthrene	0.324 U	0.330 U	NA
Phenol	0.324 U	0.330 U	NA
Pyrene	0.324 U	0.330 U	NA
Organochlorine Pesticides (mg/kg)			
4,4'-DDD	0.00168 U	NA	NA
4,4'-DDE	0.00168 U	NA	NA
4,4'-DDT	0.00168 U	NA	NA
Aldrin	0.00168 UJ	NA	NA
alpha-BHC	0.00168 U	NA	NA
alpha-Chlordane	0.00168 U	NA	NA
beta-BHC	0.00327 U	NA	NA



Sample Designation:	SF-03 (Backfill Source)	SF-04 (1381 Cove Ln)	TS-01
Sample Collection Date:	4/1/2008	4/1/2008	4/1/2008
Description:			Soil Trip Blank
Organochlorine Pesticides (mg/kg) (cont'd)			
Chlordane	0.0661 U	NA	NA
delta-BHC	0.00168 U	NA	NA
Dieldrin	0.00168 U	NA	NA
Endosulfan I	0.00168 U	NA	NA
Endosulfan II	0.00168 U	NA	NA
Endosulfan sulfate	0.00168 U	NA	NA
Endrin	0.00168 U	NA	NA
Endrin aldehyde	0.00168 U	NA	NA
Endrin ketone	0.00168 U	NA	NA
gamma-BHC (Lindane)	0.00168 U	NA	NA
gamma-Chlordane	0.00168 U	NA	NA
Heptachlor	0.00168 U	NA	NA
Heptachlor epoxide	0.00168 U	NA	NA
Methoxychlor	0.00327 U	NA	NA
Toxaphene	0.0661 U	NA	NA
Polychlorinated Biphenyl Compounds (mg/k	(g)	<u> </u>	
Aroclor-1016	0.0329 U	NA	NA
Aroclor-1221	0.0329 U	NA	NA
Aroclor-1232	0.0329 U	NA	NA
Aroclor-1242	0.0329 U	NA	NA
Aroclor-1248	0.0329 U	NA	NA
Aroclor-1254	0.0329 U	NA	NA
Aroclor-1260	0.0329 U	NA	NA
Gasoline Range Organics (GRO) (mg/kg)	1		
GRO (C6-C10) TN	3.72 U	4.38 U	NA
Extractable Petroleum Hydrocarbons (EPH	) (mg/kg)		
Extractable Petroleum Hydrocarbons (EPH)	15.1	26.1	NA
Metals (mg/kg)			
Aluminum	12400	21600	NA
Antimony	10.1 U	10.1 U	NA
Arsenic	4.07	4.61	NA
Barium	95.8	92.6 J	NA
Beryllium	0.726 Ј	0.545 J	NA
Cadmium	1.15	1.07	NA
Calcium	754	386 J	NA
Chromium	12.2	18.5	NA
Cobalt	10.4	9.27	NA
Copper	13.9	5.72	NA
Iron	16500	14100	NA
Lead	13.6	11.4	NA
Magnesium	1420	1200	NA
Manganese	541	294	NA
Mercury	0.0501 J	0.0481 J	NA
Nickel	17.6	8.14	NA
Potassium	2060	2200 J	NA
Selenium	3.35 J+	2.62 J+	NA



Sample Designation:	SF-03 (Backfill Source)	SF-04 (1381 Cove Ln)	TS-01
Sample Collection Date:	4/1/2008	4/1/2008	4/1/2008
Description:			Soil Trip Blank
Metals (mg/kg) (cont'd)			
Silver	1.01 U	1.01 U	NA
Sodium	185	186 J	NA
Thallium	2.02 UJ	2.02 UJ	NA
Vanadium	20.8	33.8	NA
Zinc	58.9	41.3	NA

#### Notes:

mg/kg = Milligrams per kilogram

- J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
- J+ = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
- R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
- U = The analyte was analyzed for, but was not detected at or above the associated value.
- UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.
- NA = The sample was not analyzed for this analyte.

